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DOCKET #: 212740US-2SRD CONT
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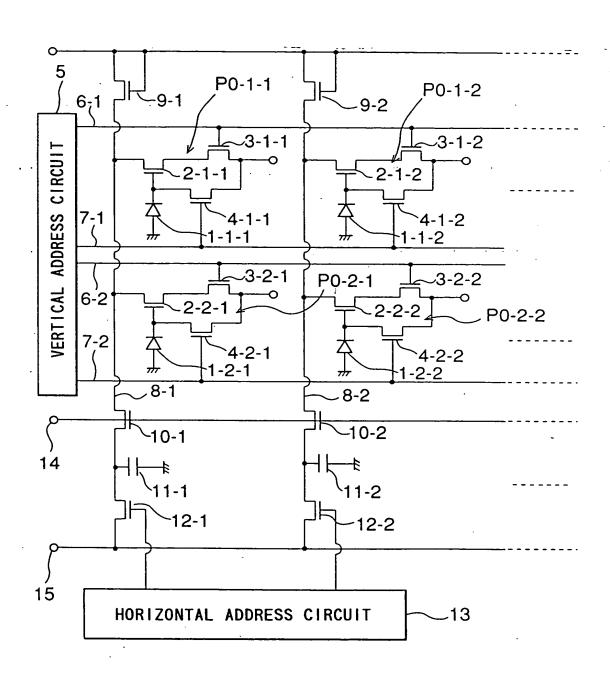


FIG. 1



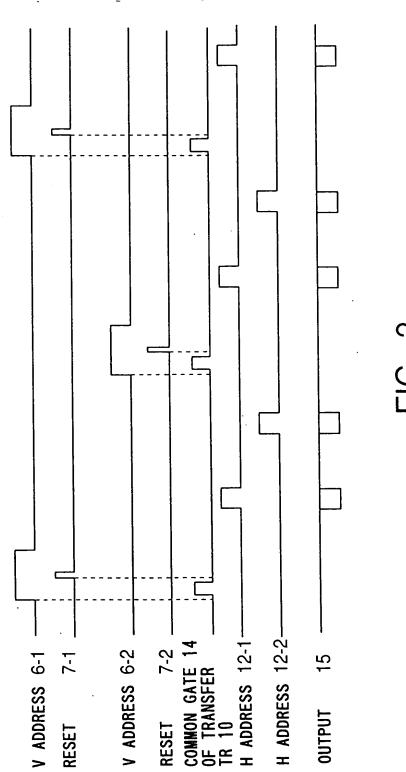
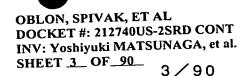
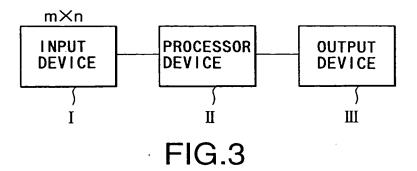


FIG. 7





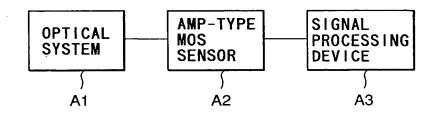


FIG.4

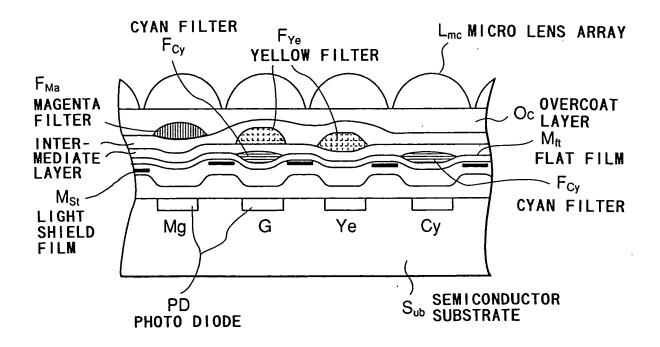
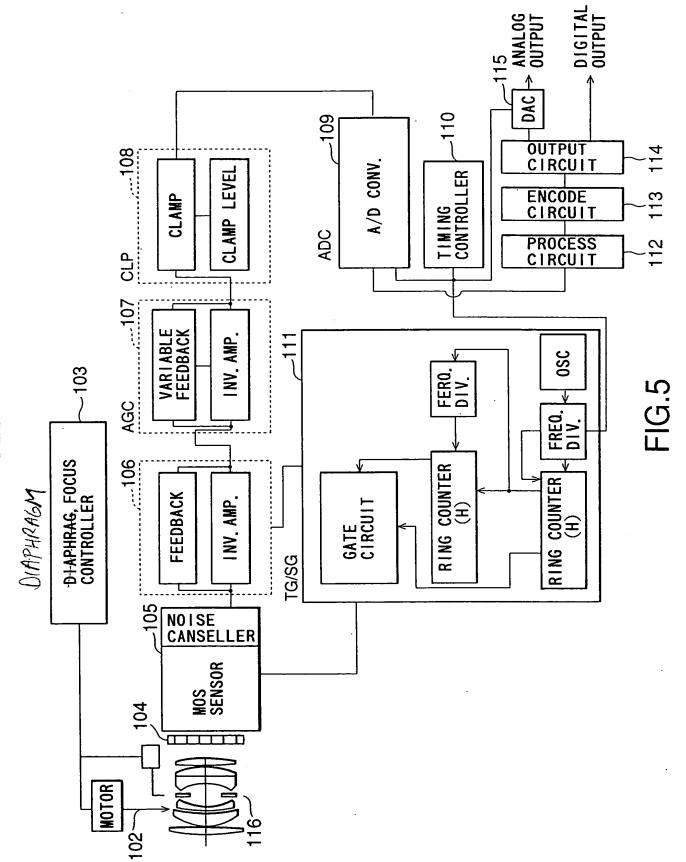


FIG.6

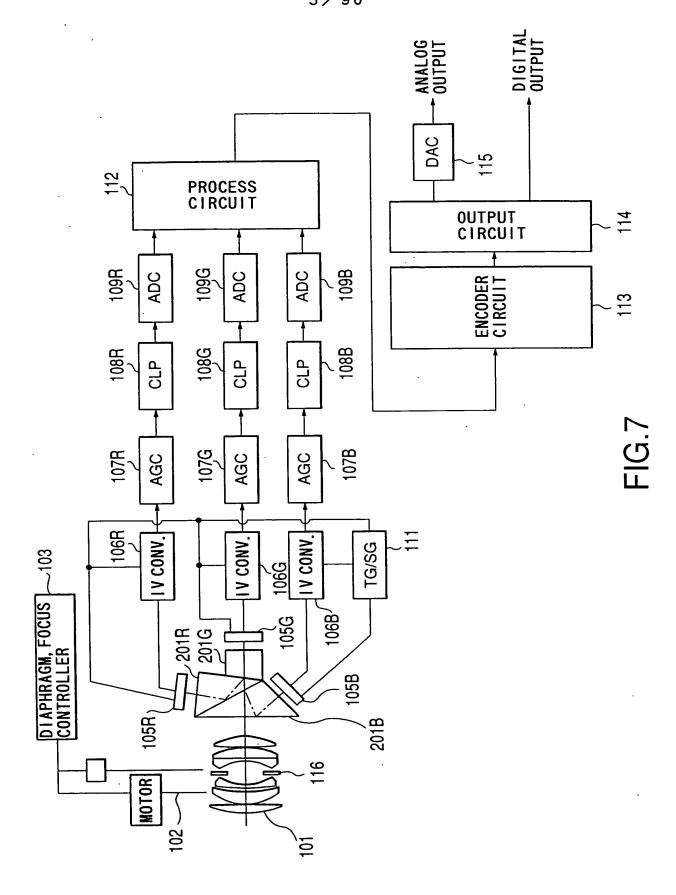
OBLON, SPIVAK, ET AL DOCKET #: 212740US-2SRD CONT INV: Yoshiyuki MATSUNAGA, et al. SHEET 4_OF_90___4/90





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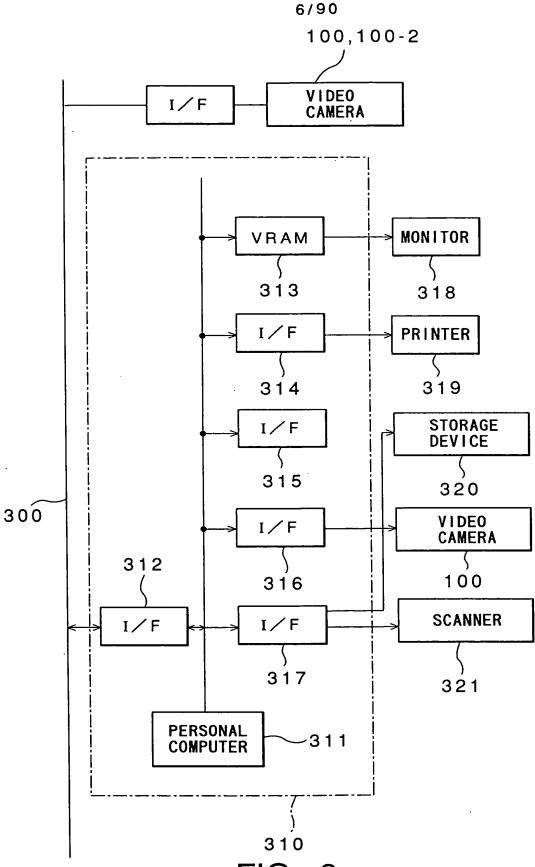


FIG. 8



OBLON, SPIVAK, ET AL
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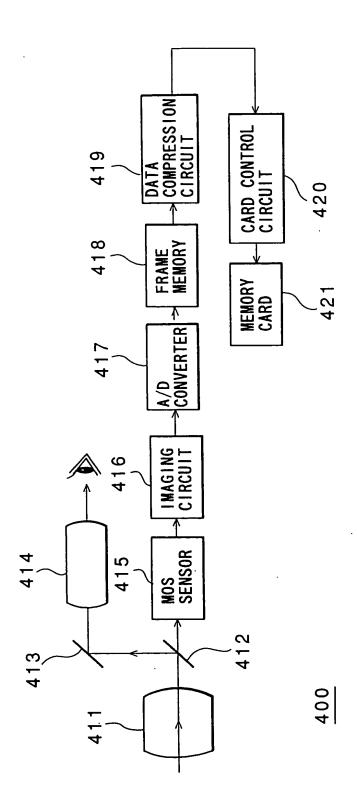


FIG. 9



OBLON, SPIVAK, ET AL
DOCKET #: 212740US-2SRD CONT
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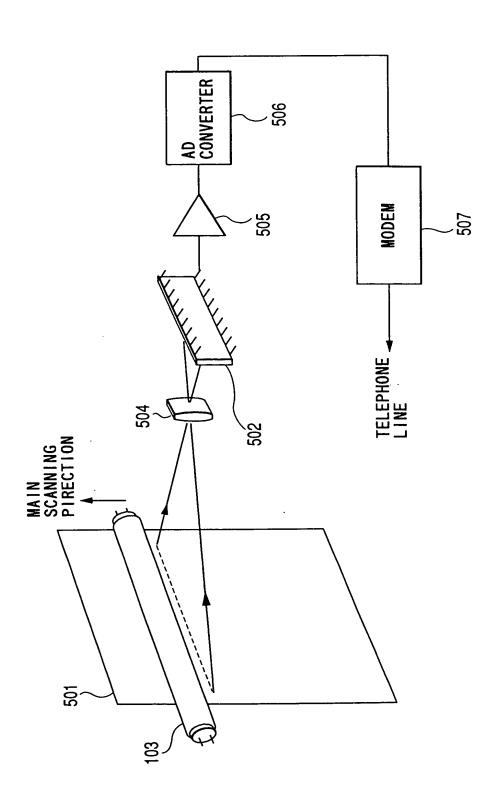
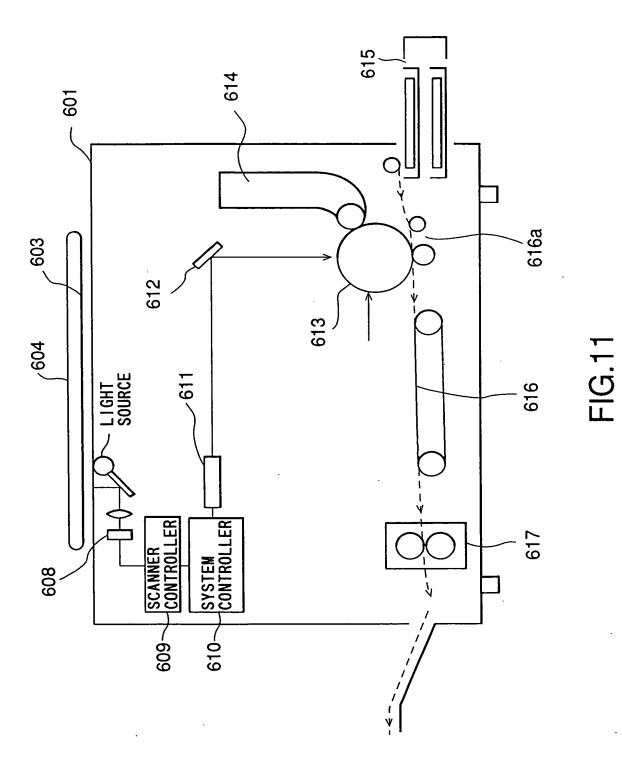
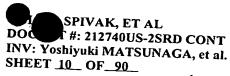


FIG.10



OBLON, SPIVAK, ET AL
DOCKET #: 212740US-2SRD CONT
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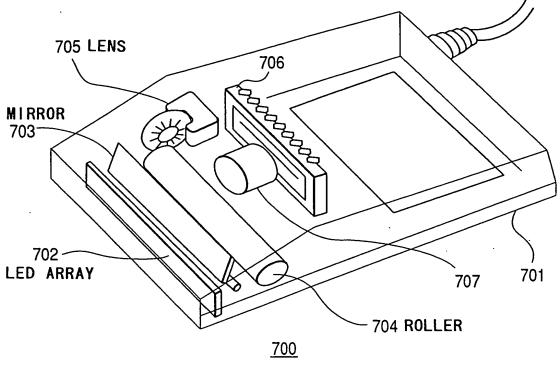


FIG.12

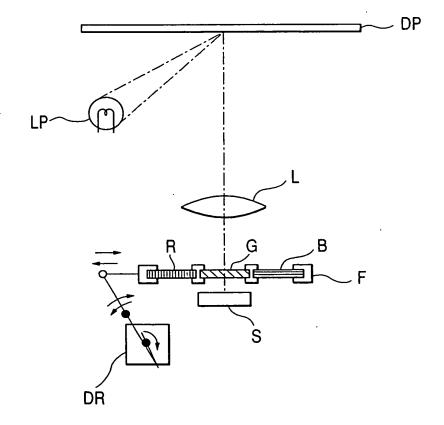


FIG.13

OBLON, SPIVAK, ET AL DOCKET #: 212740US-2SRD CONT INV: Yoshiyuki MATSUNAGA, et al. SHEET 11 OF 90 11/90

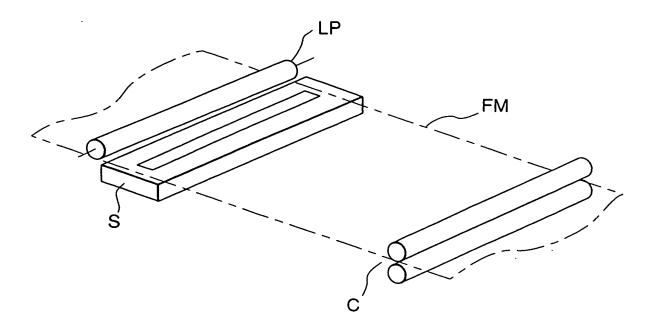


FIG.14

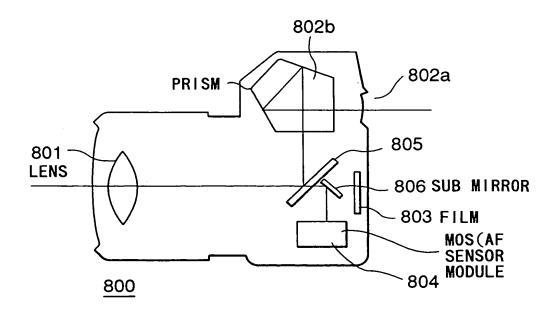
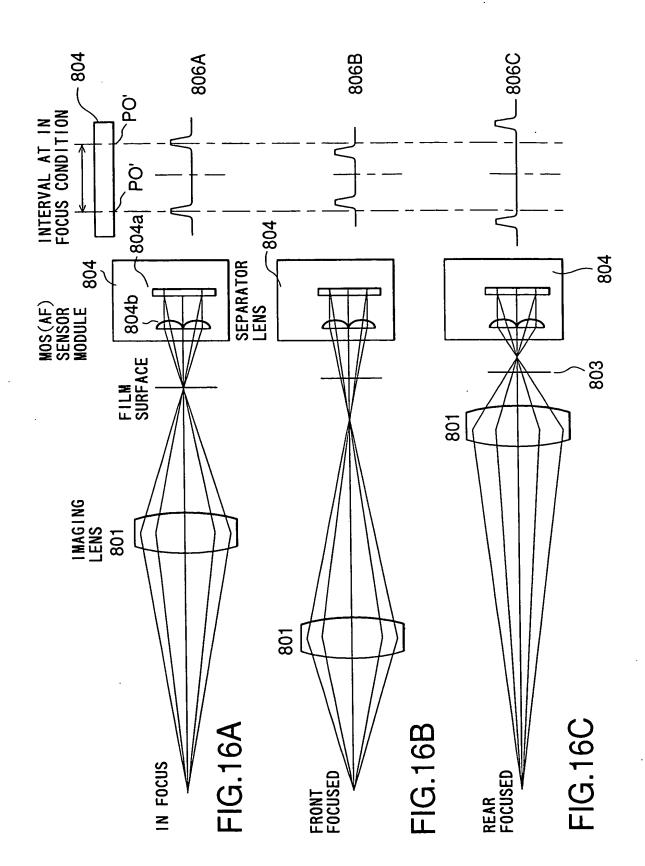


FIG.15

OBLON, SPIVAK, ET AL DOCKET #: 212740US-2SRD CONT INV: Yoshiyuki MATSUNAGA, et al. SHEET 12 OF 90 12/90



OBLO IVAK, ET AL
DOCKET #: 212740US-2SRD CONT
INV: Yoshiyuki MATSUNAGA, et al.
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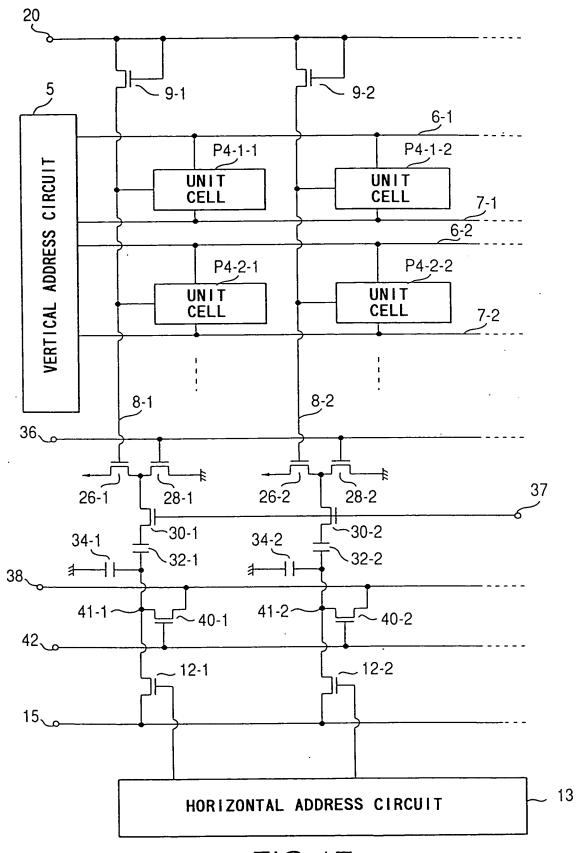
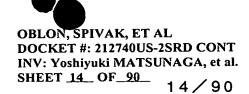


FIG.17



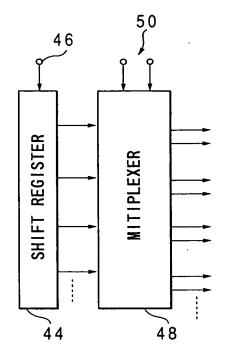


FIG.18

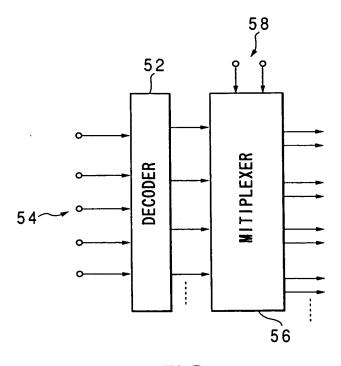


FIG.19

OBLON, SPIVAK, ET AL
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FIG.20

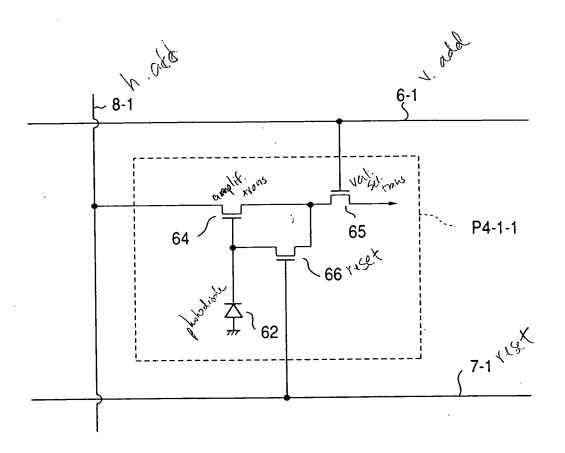
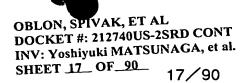


FIG.21



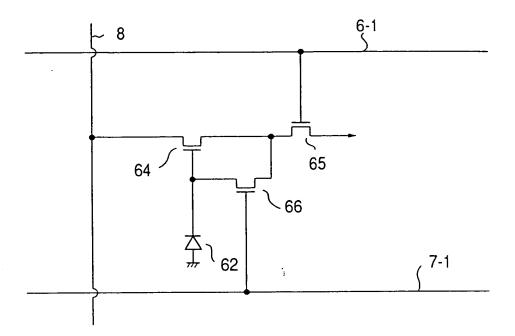


FIG.22A

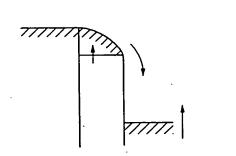


FIG.22B

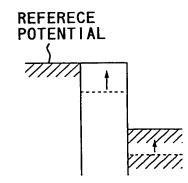


FIG.22C

OBLON, SHAAK, ET AL DOCKET #: 212740US-2SRD CONT INV: Yoshiyuki MATSUNAGA, et al.

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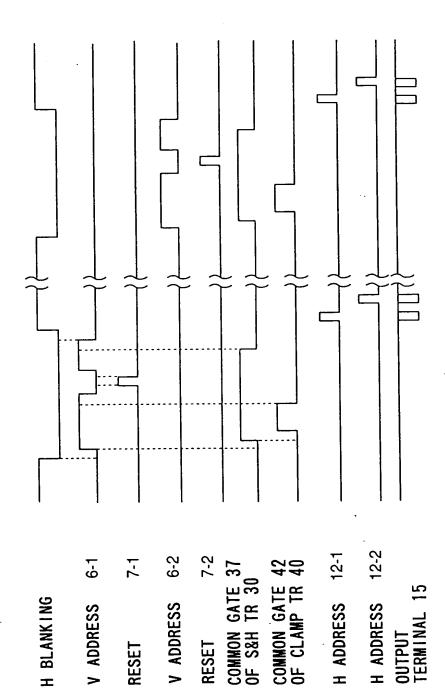
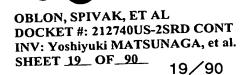


FIG.23



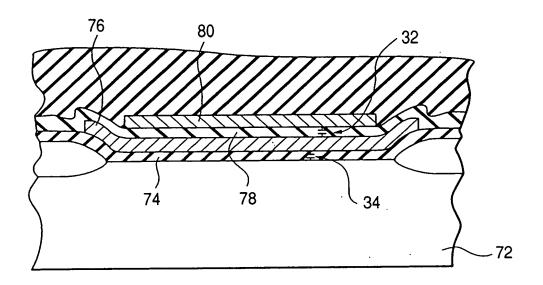


FIG.24

OBLON, SPIVAK, ET AL
DOCKET #: 212740US-2SRD CONT

INV: Yoshiyuki MATSUNAGA, et al. SHEET 20 OF 90 20/90

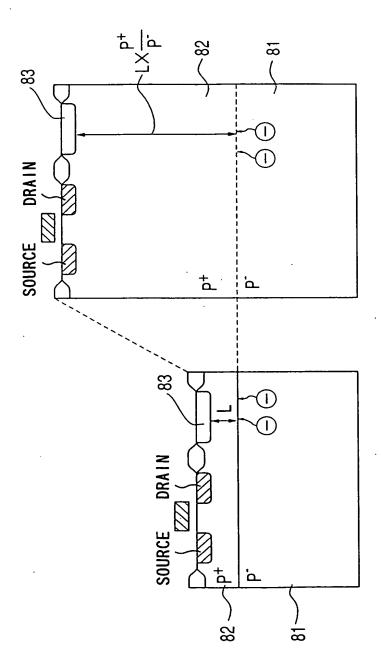
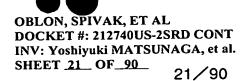


FIG.25B

FIG.25A



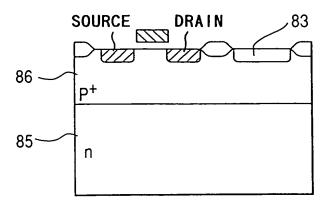


FIG.26

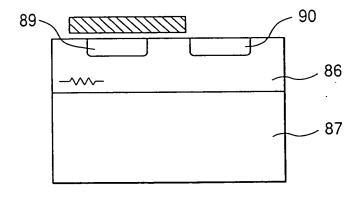


FIG.27

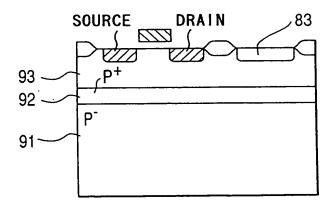


FIG.28

OBLON, SPIVAK, ET AL DOCKET #: 212740US-2SRD CONT INV: Yoshiyuki MATSUNAGA, et al. SHEET 22_OF_90_ 22/90

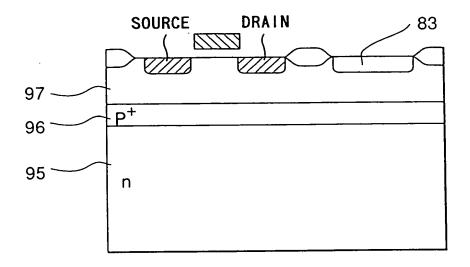


FIG.29

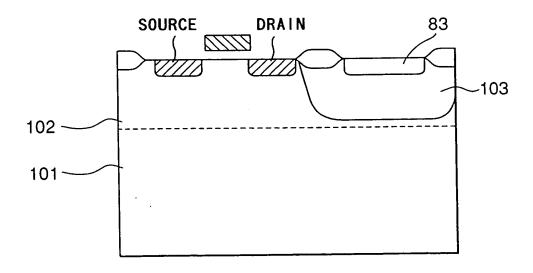


FIG.30

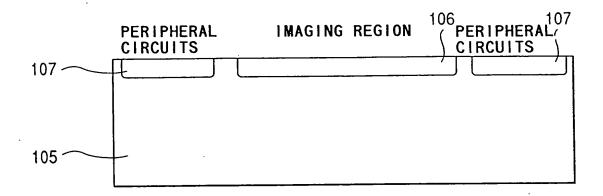


FIG.31

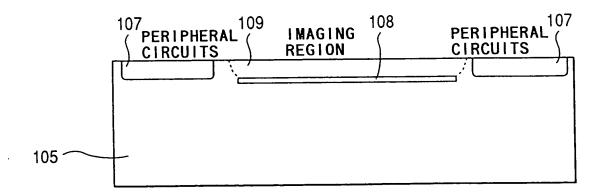


FIG.32

PIVAK, ET AL DOCKET #: 212740US-2SRD CONT INV: Yoshiyuki MATSUNAGA, et al. SHEET 24 OF 90 24/90

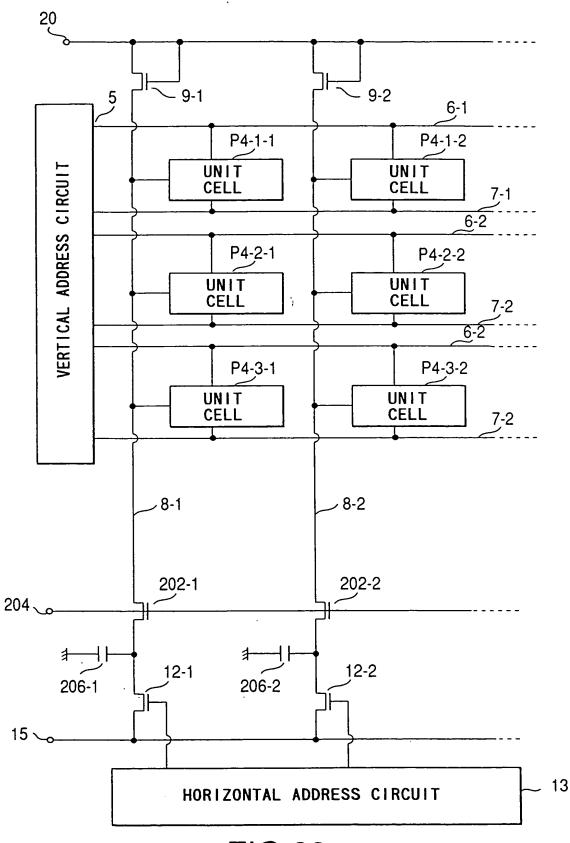


FIG.33

PIVAK, ET AL
DOCK #: 212740US-2SRD CONT
INV: Yoshiyuki MATSUNAGA, et al.
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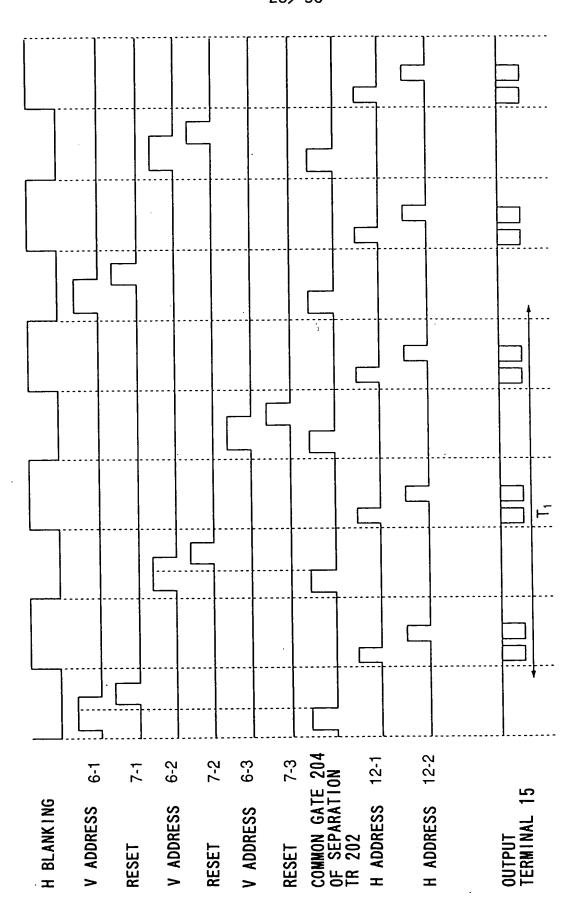


FIG.34

OBLON, VAK, ET AL
DOCKET #: 212740US-2SRD CONT
INV: Yoshiyuki MATSUNAGA, et al.
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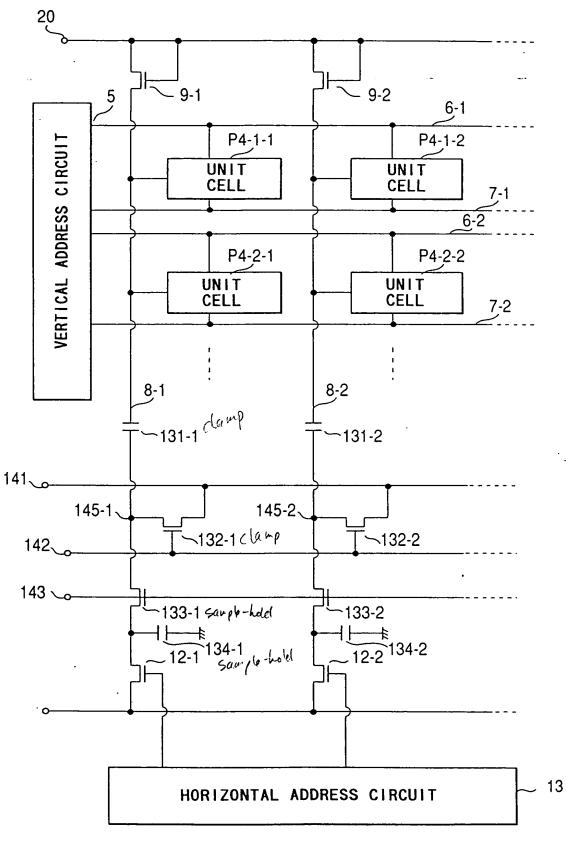


FIG.35

OBLON, SPIVAK, ET AL
DOCKET #: 212740US-2SRD CONT
INV: Yoshiyuki MATSUNAGA, et al.
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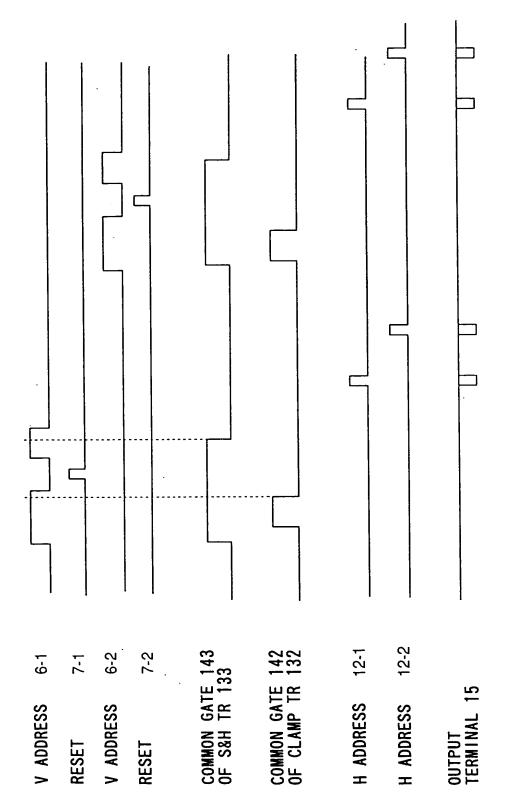


FIG.36

OBLON, SPIVAK, ET AL DOCKET #: 212740US-2SRD CONT INV: Yoshiyuki MATSUNAGA, et al. SHEET 28 OF 90 28/90

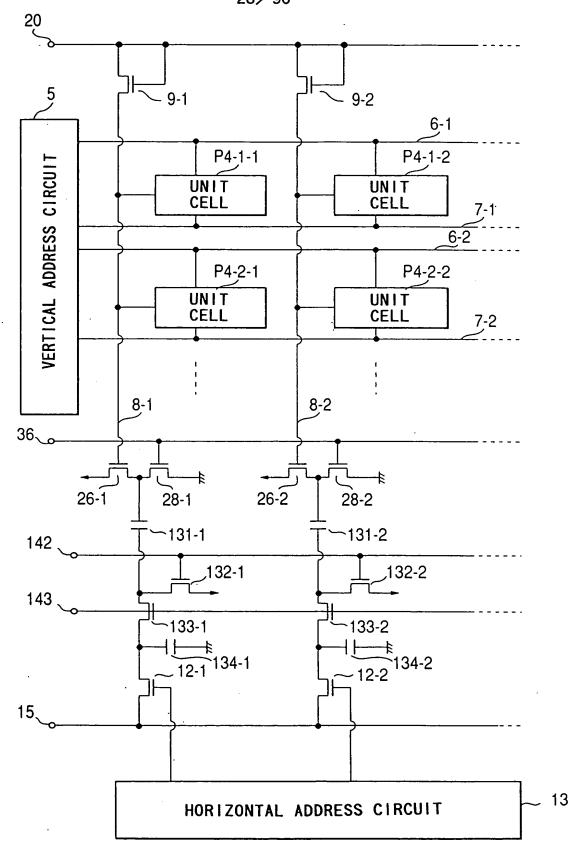


FIG.37



OBLON, SPIVAK, ET AL DOCKET #: 212740US-2SRD CONT INV: Yoshiyuki MATSUNAGA, et al. SHEET 29 OF 90 29/90

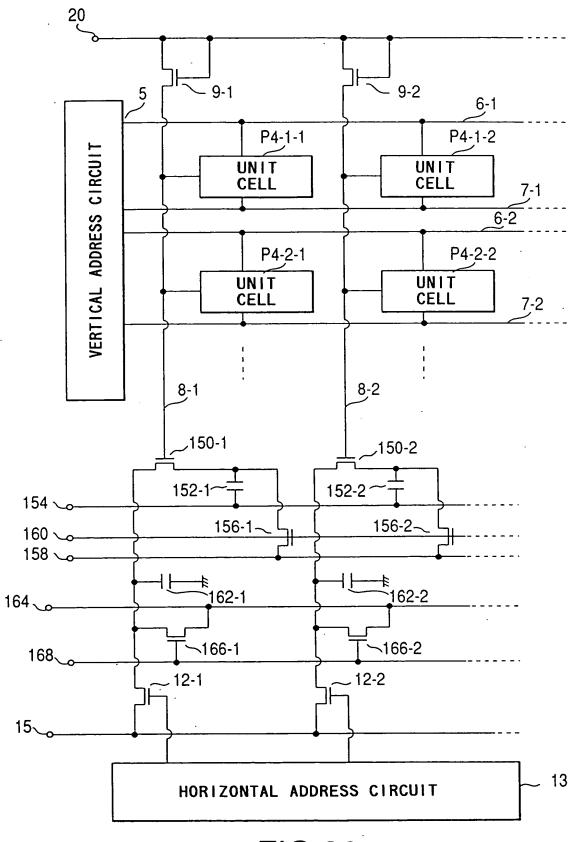


FIG.38

BLON, SPIVAK, ET AL
DOCKET #: 212740US-2SRD CONT
INV: Yoshiyuki MATSUNAGA, et al.
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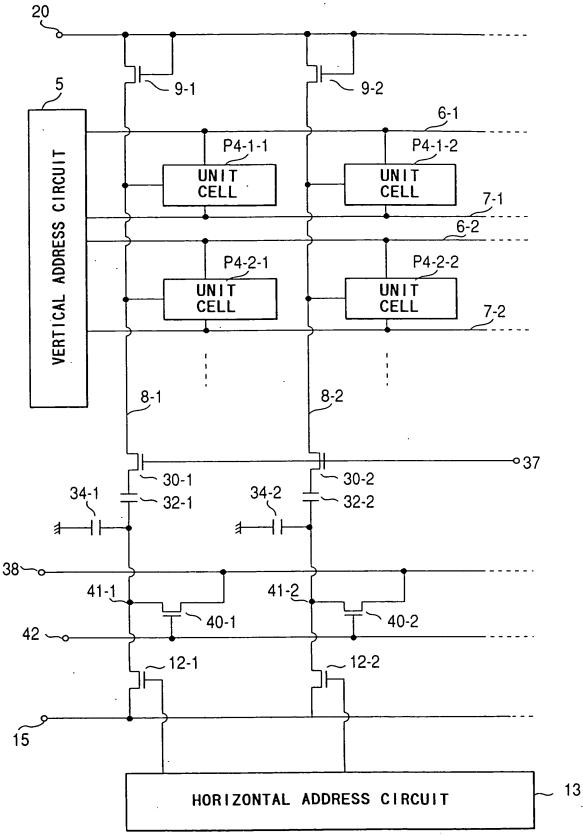


FIG.39

OBI 7AK, ET AL DOCKET #: 212740US-2SRD CONT INV: Yoshiyuki MATSUNAGA, et al. SHEET 31 OF 90 31/90

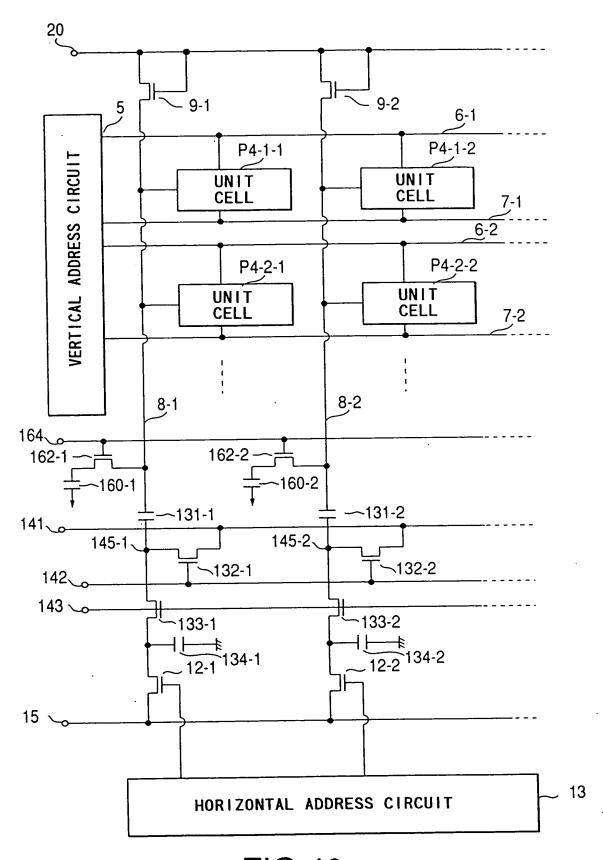


FIG.40

OBLO, AK, ET AL
DOCKET #: 212740US-2SRD CONT
INV: Yoshiyuki MATSUNAGA, et al.
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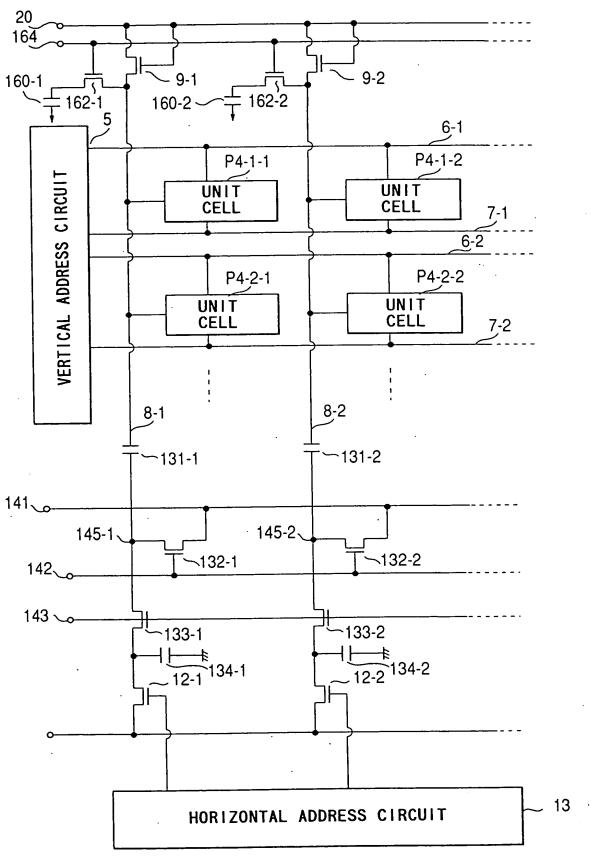


FIG.41



OBLON, SPIVAK, ET AL DOCKET #: 212740US-2SRD CONT INV: Yoshiyuki MATSUNAGA, et al. SHEET 33 OF 90 33/90

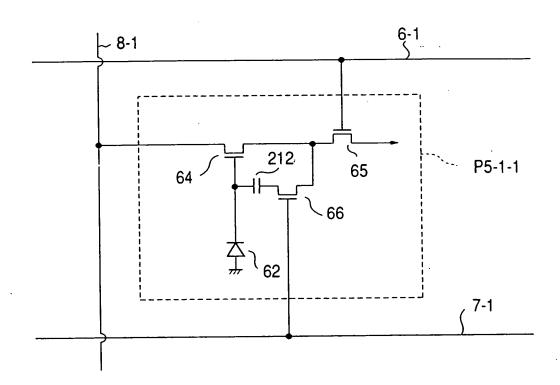


FIG.42

OBLON, SPIVAK, ET AL
DOCKET #: 212740US-2SRD CONT
INV: Yoshiyuki MATSUNAGA, et al.
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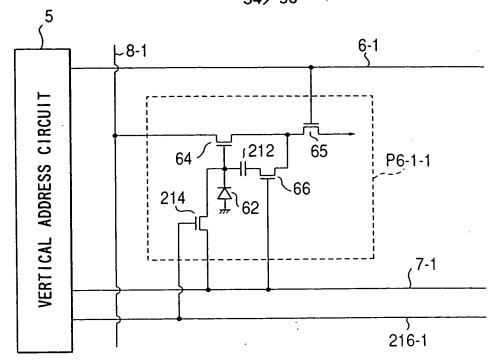


FIG.43

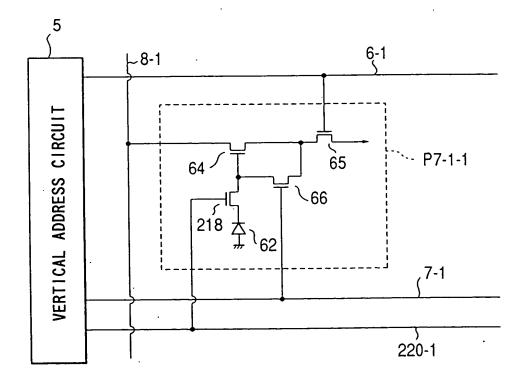


FIG.44

OBLON, SPIVAK, ET AL DOCKET #: 212740US-2SRD CONT INV: Yoshiyuki MATSUNAGA, et al. SHEET 35_OF_90_35/90

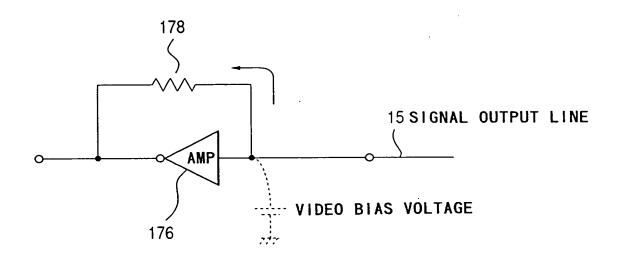


FIG.45



OBLON, SPIVAK, ET AL DOCKET #: 212740US-2SRD CONT INV: Yoshiyuki MATSUNAGA, et al. SHEET 36 OF 90 36/90

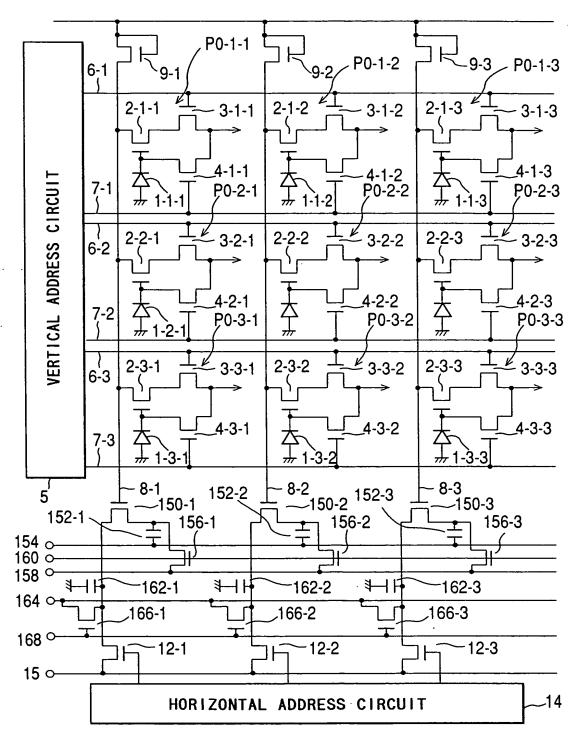
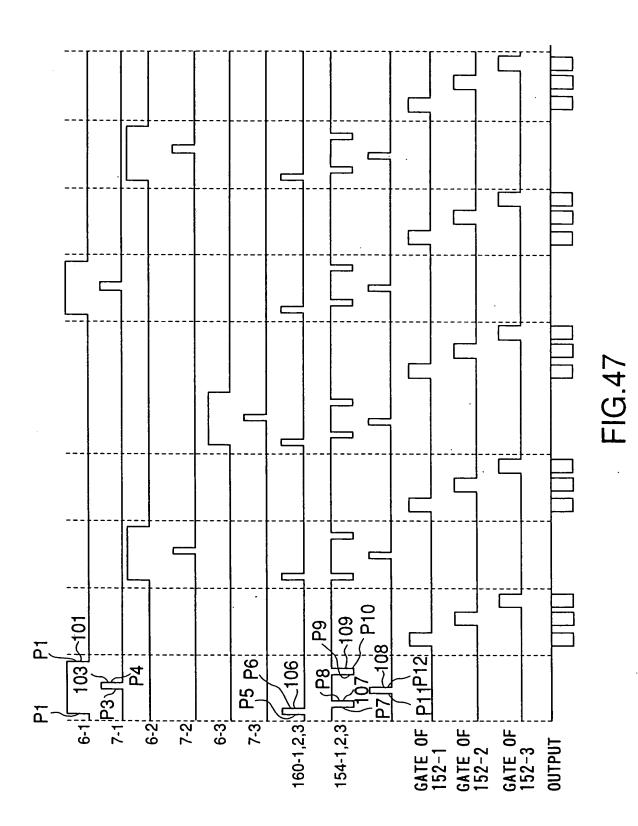


FIG.46

OBLON, SPIVAK, ET AL DOCKET #: 212740US-2SRD CONT INV: Yoshiyuki MATSUNAGA, et al.

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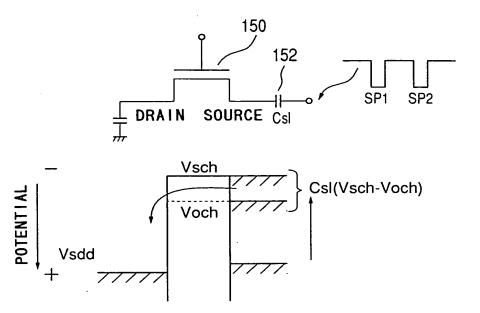


FIG.48

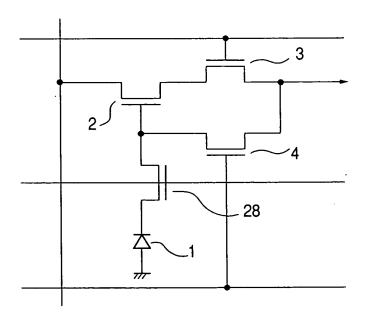


FIG.49

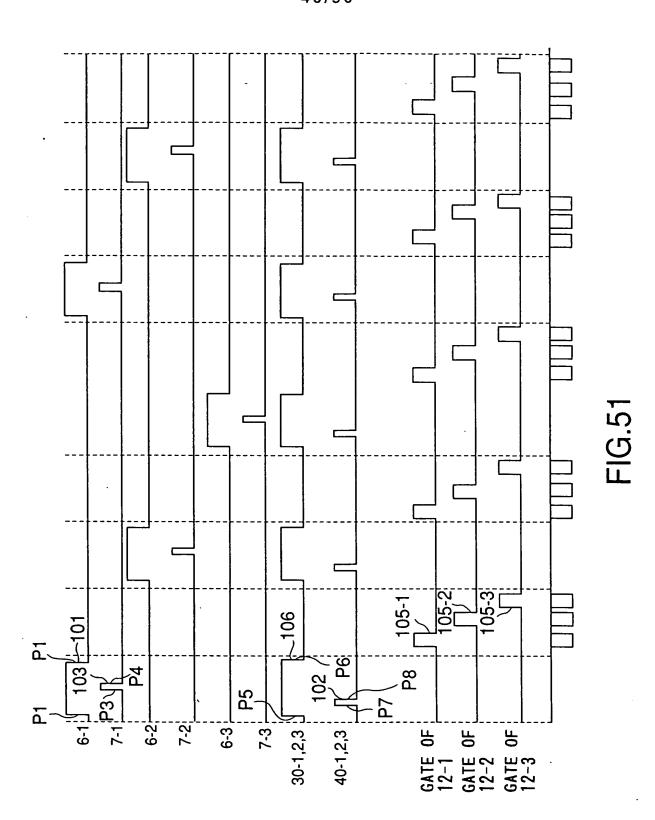
OBLON, SPIVAK, ET AL DOCKET #: 212740US-2SRD CONT INV: Yoshiyuki MATSUNAGA, et al. SHEET 39 OF 90 39/90

₹9.3 6-1 9-2 3-1-1 2-1-2 3-1-2 2-1-3 2-1-1 - 3-1-3 VERTICAL ADDRESS CIRCUIT 4-1-1 4-1-3 4-1-2 7-1 { 开1-1-2 1-1-3 } 6-2 2-2-2 2-2-3 2-2-1 3-2-1 3-2-2 3-2-3 4-2-1 4-2-2 4-2-3 7-2 **卅 1-2-**1 } 6-3 2-3-1 2-3-2 2-3-3 3-3-1 3-3-2 3-3-3 4-3-2 4-3-1 4-3-3 7-3 **#** 1-3-// 1-3-2 5 - 8-1 8-2 8-3 30-1 30-2 30-3 _ 32-1 _ 32-2 _ 32-3 34-1 36-2 36-1 -36-3 380 40-1 40-2 40-3 42 ° 12-2 12-3 12-1 15 0-HORIZONTAL ADDRESS CIRCUIT -14

FIG.50

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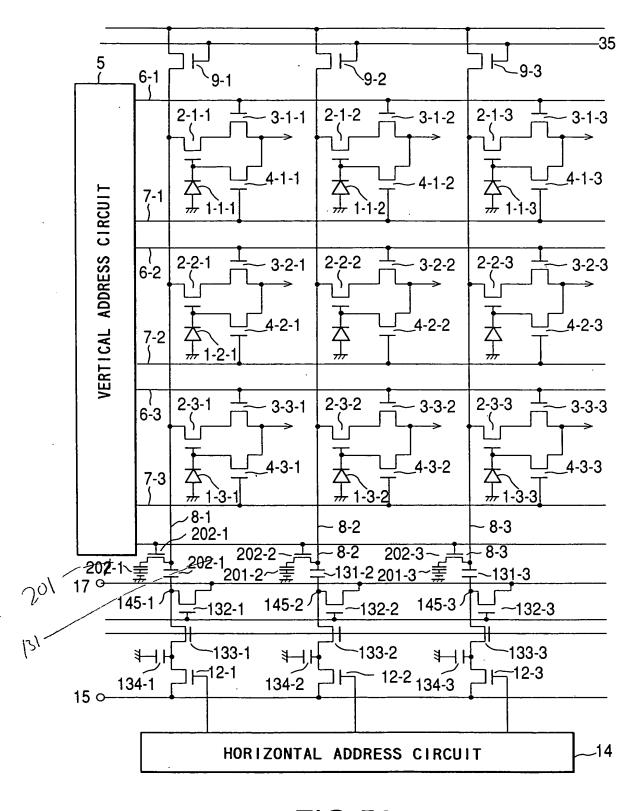


FIG.52



OBLON, SPIVAK, ET AL DOCKET #: 212740US-2SRD CONT INV: Yoshiyuki MATSUNAGA, et al. SHEET 42 OF 90

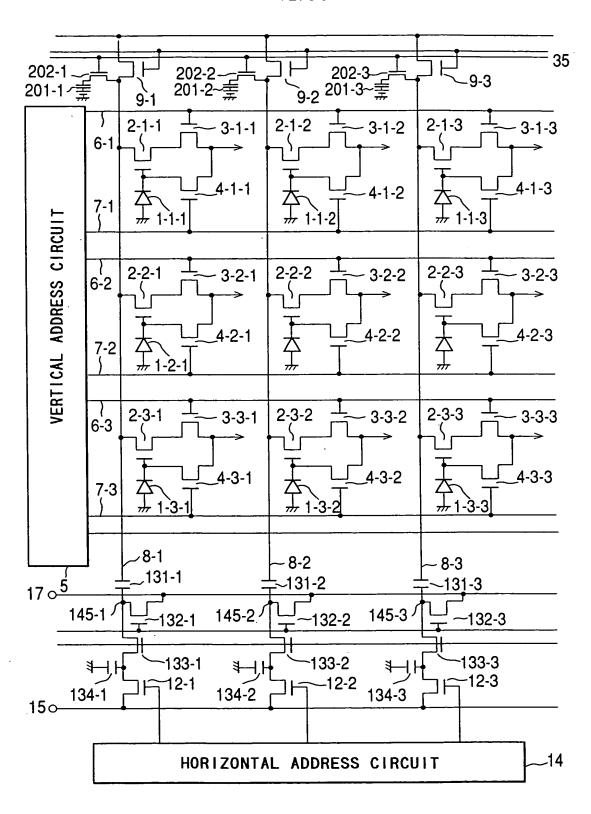


FIG.53

OBLON, SPIVAK, ET AL
DOCKET #: 212740US-2SRD CONT
INV: Yoshiyuki MATSUNAGA, et al.
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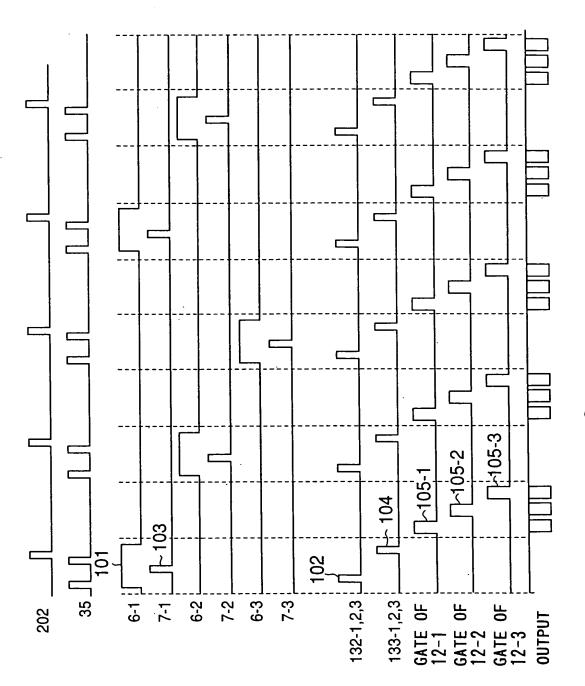
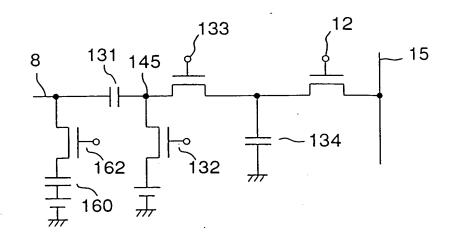
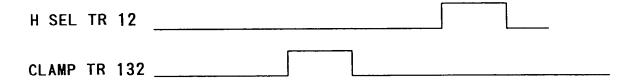
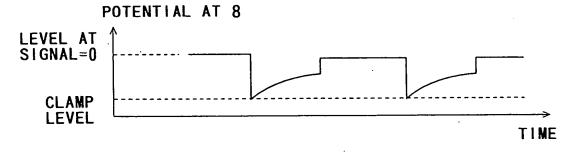


FIG.54

OBJECT WAK, ET AL
DOCKET #: 212740US-2SRD CONT
INV: Yoshiyuki MATSUNAGA, et al.
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4 4/9 0







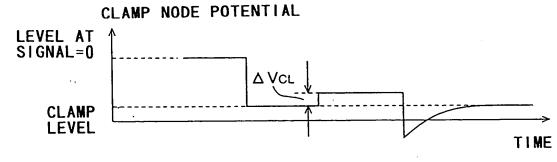


FIG.55



OBLON, SPIVAK, ET AL DOCKET #: 212740US-2SRD CONT INV: Yoshiyuki MATSUNAGA, et al. SHEET 45_ OF_90_

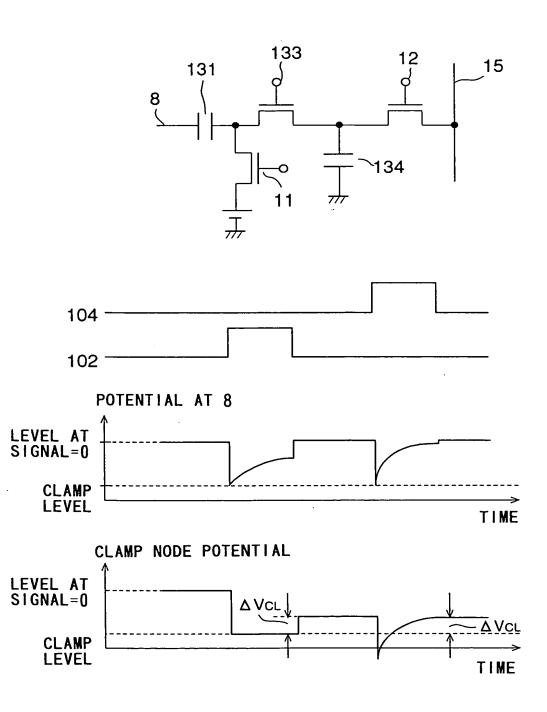


FIG.56

OBLON, SPIVAK, ET AL DOCKET #: 212740US-2SRD CONT INV: Yoshiyuki MATSUNAGA, et al. SHEET 46_ OF_90_

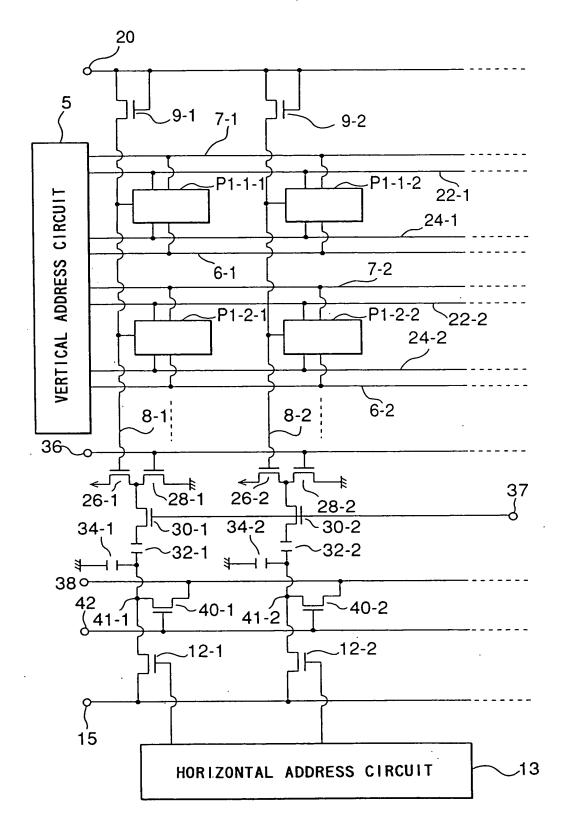


FIG.57



OBLON, SPIVAK, ET AL
DOCKET #: 212740US-2SRD CONT
INV: Yoshiyuki MATSUNAGA, et al.
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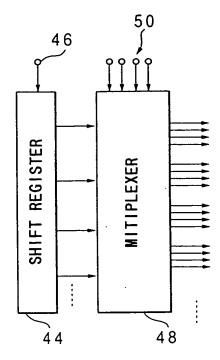


FIG.58

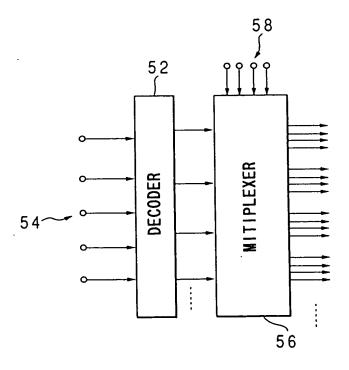


FIG.59

OBLON, SPIVAK, ET AL
DOCKET #: 212740US-2SRD CONT
INV: Yoshiyuki MATSUNAGA, et al.
SHEET 48 OF 90 48/90



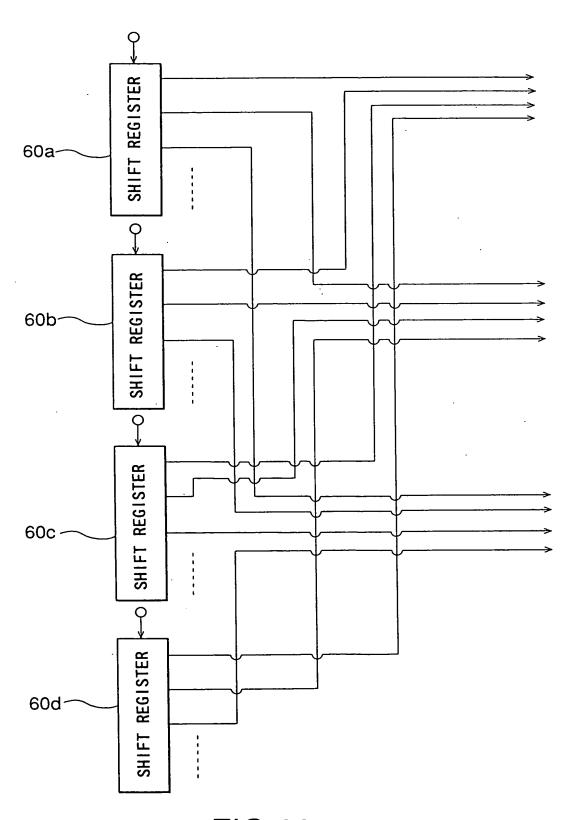


FIG.60

OBLON, SPTVAK, ET AL DOCKET #: 212740US-2SRD CONT INV: Yoshiyuki MATSUNAGA, et al. SHEET 49 OF 90 49/90

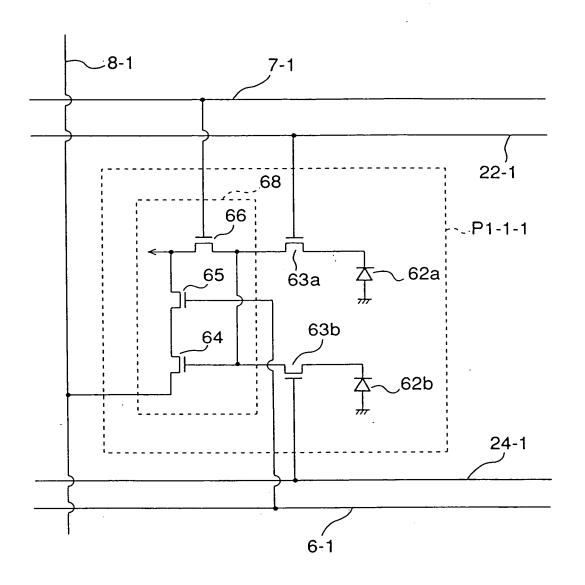


FIG.61

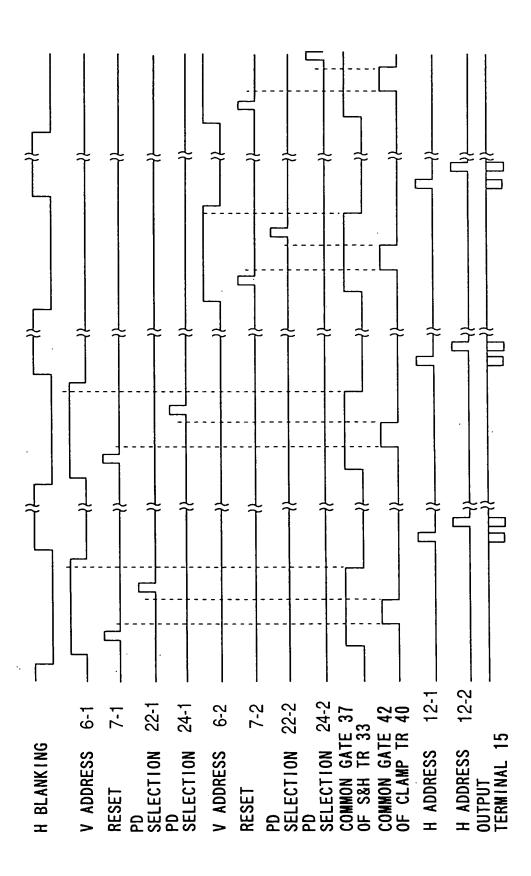


FIG.62



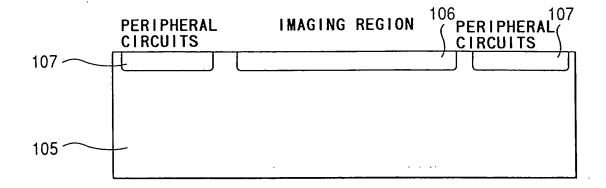


FIG.63

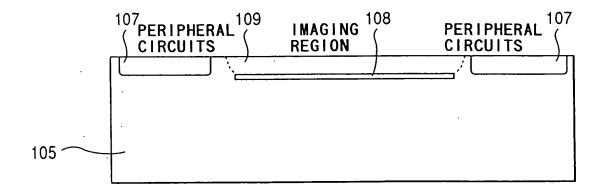


FIG.64

OBLON, S. AK, ET AL
DOCKET #: 212740US-2SRD CONT
INV: Yoshiyuki MATSUNAGA, et al.
SHEET _52_ OF__90__
52/90

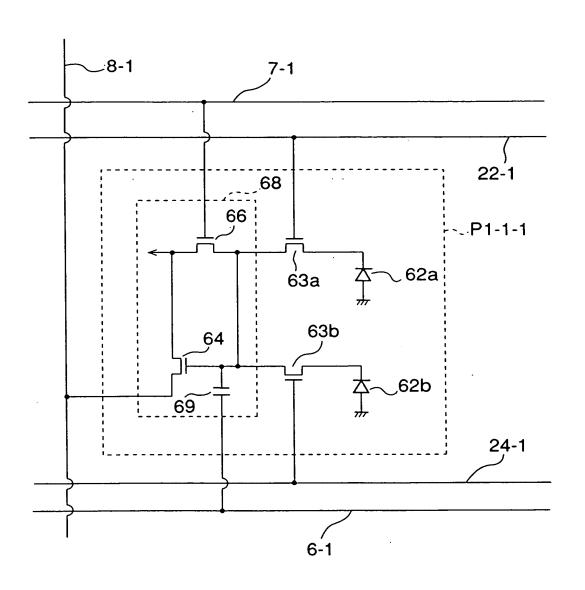


FIG.65

OBLON, SPIVAK, ET AL
DOCKET #: 212740US-2SRD CONT
INV: Yoshiyuki MATSUNAGA, et al.
SHEET 53 OF 90 53/90

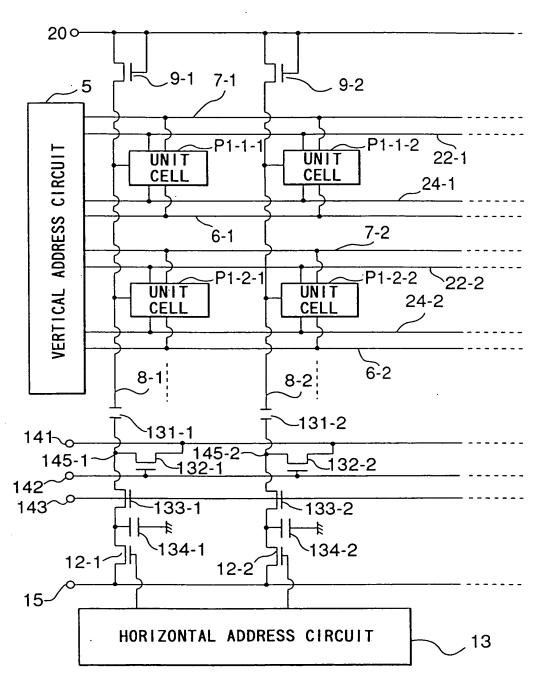


FIG.66

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OBLON, SPIVAK, ET AL DOCKET #: 212740US-2SRD CONT INV: Yoshiyuki MATSUNAGA, et al.

SHEET <u>54</u> OF <u>90</u>

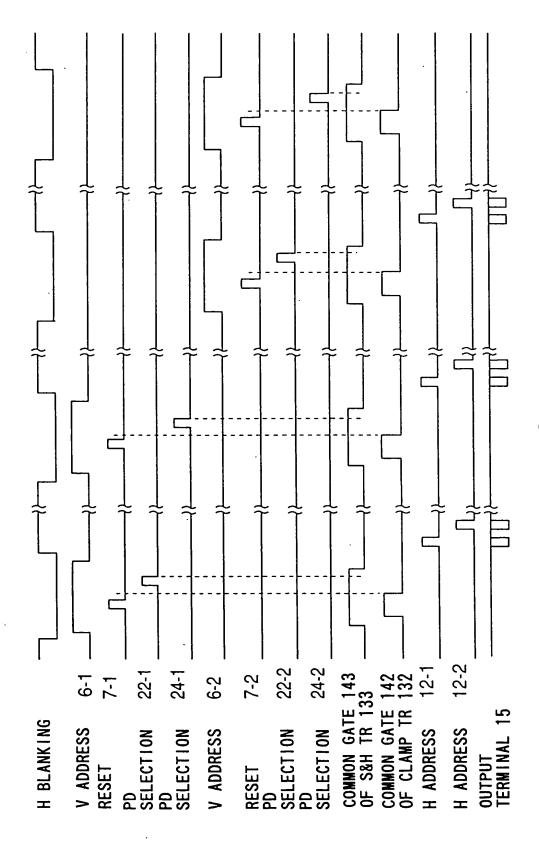


FIG.67

OBLON, SPIVAK, ET AL
DOCKET #: 212740US-2SRD CONT
INV: Yoshiyuki MATSUNAGA, et al.
SHEET 55_OF_90______55/90

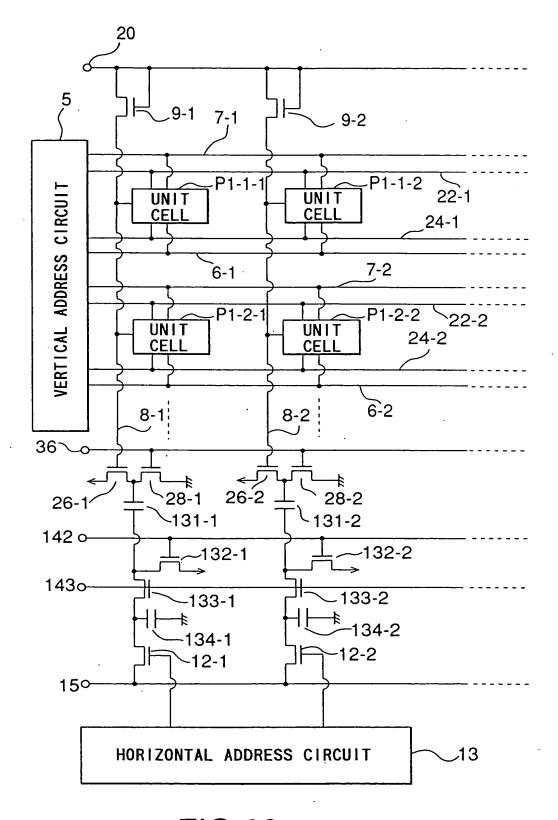


FIG.68

OF IVAK, ET AL
DOCKET #: 212740US-2SRD CONT
INV: Yoshiyuki MATSUNAGA, et al.
SHEET <u>56</u> OF <u>90</u>
56/90-

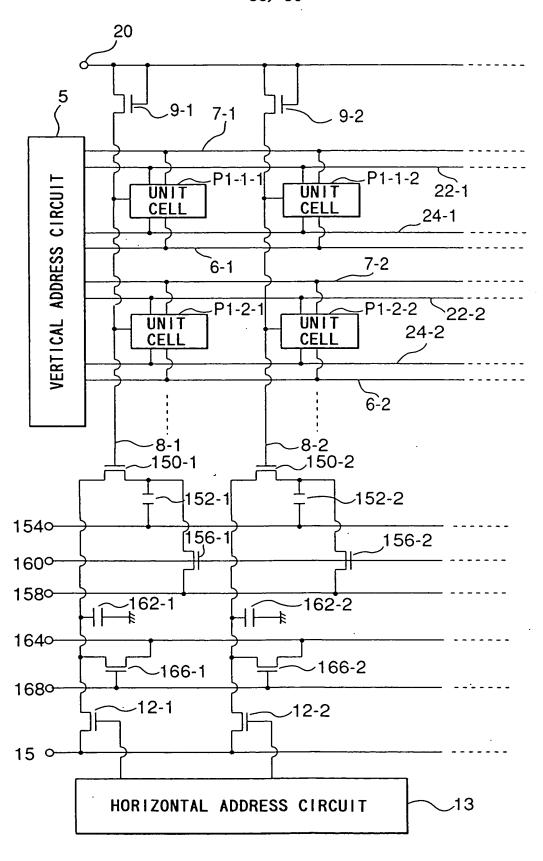
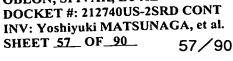
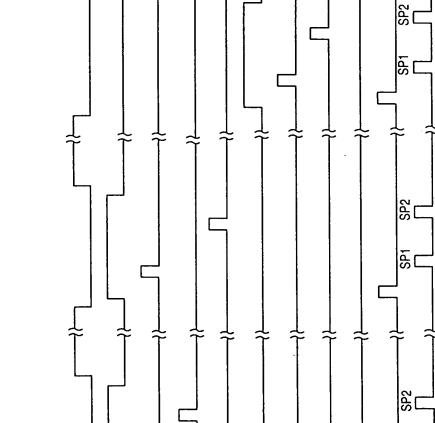


FIG.69





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V ADDRESS

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PD SELECTION

6-2

V ADDRESS

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22-2

PD SELECTION PD SELECTION

7-2

RESET

22-4

12-2

H ADDRESS OUTPUT

TERMINAL 15

12-1

H ADDRESS

168 OF TR 166

COMMON GATE DRAIN RESET

54

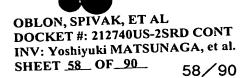
COMMON GATE 160 TR 156 SLICE PULSE

SLICE RESET

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FIG.70



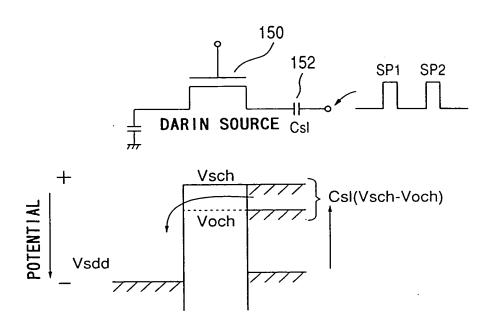


FIG.71

OBLON, SPIVAK, ET AL DOCKET #: 212740US-2SRD CONT INV: Yoshiyuki MATSUNAGA, et al. SHEET <u>59</u> OF <u>90</u> 59/90

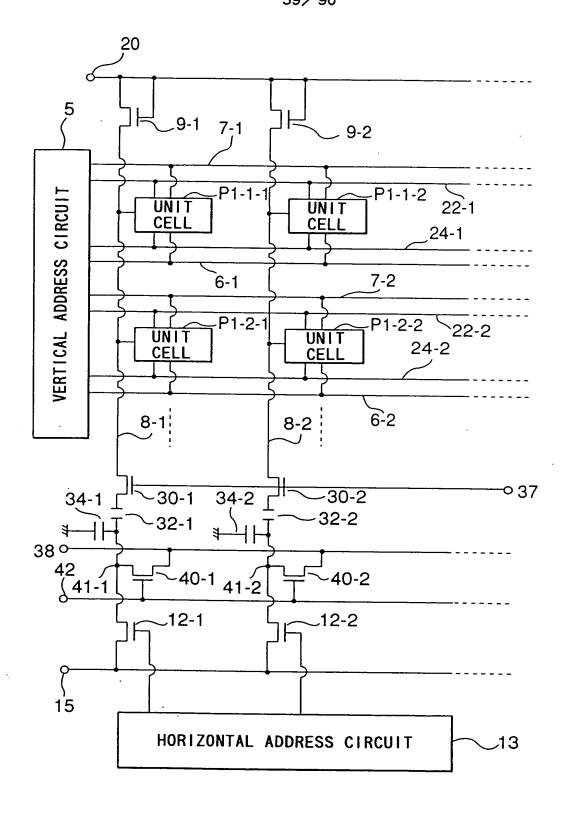


FIG.72

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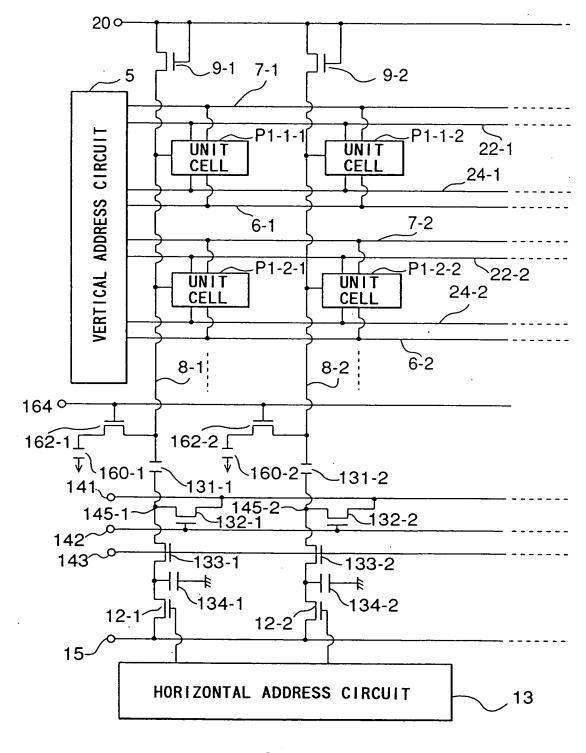


FIG.73

OBLON, SPIVAK, ET AL
DOCKET #: 212740US-2SRD CONT
INV: Yoshiyuki MATSUNAGA, et al.
SHEET 61_OF_90
61/90

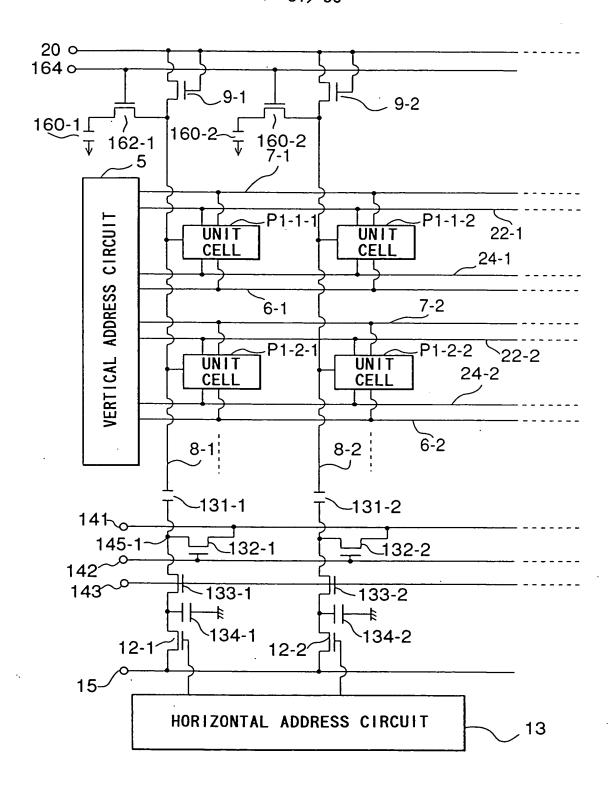
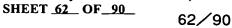


FIG.74

OBLON, SPIVAK, ET AL DOCKET #: 212740US-2SRD CONT INV: Yoshiyuki MATSUNAGA, et al.



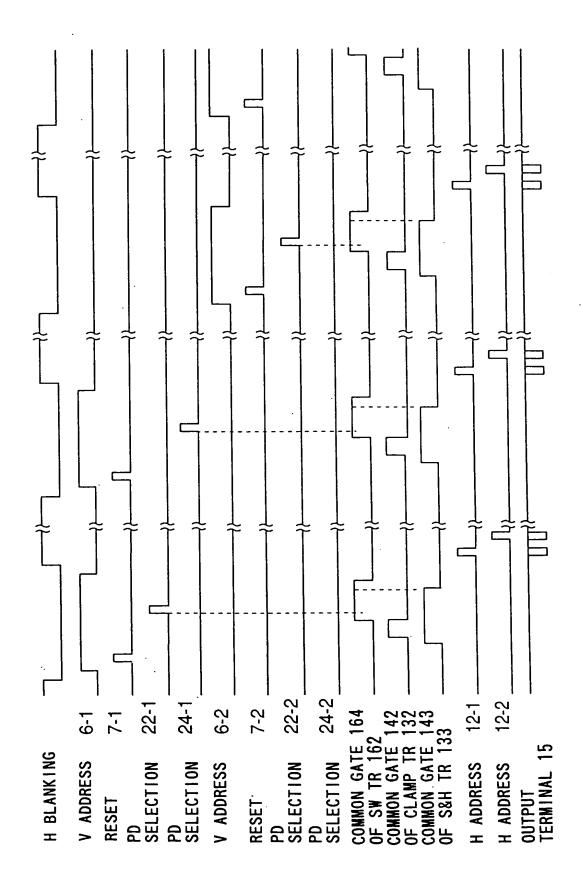
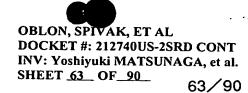
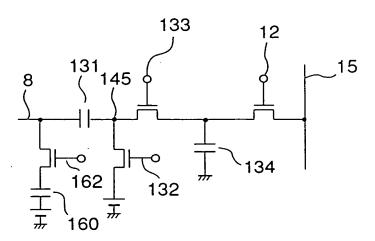
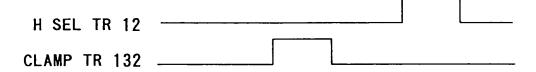
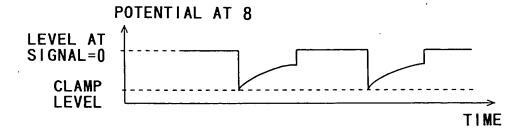


FIG.75









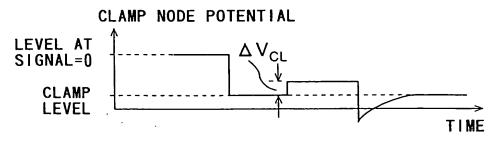


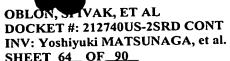
FIG.76

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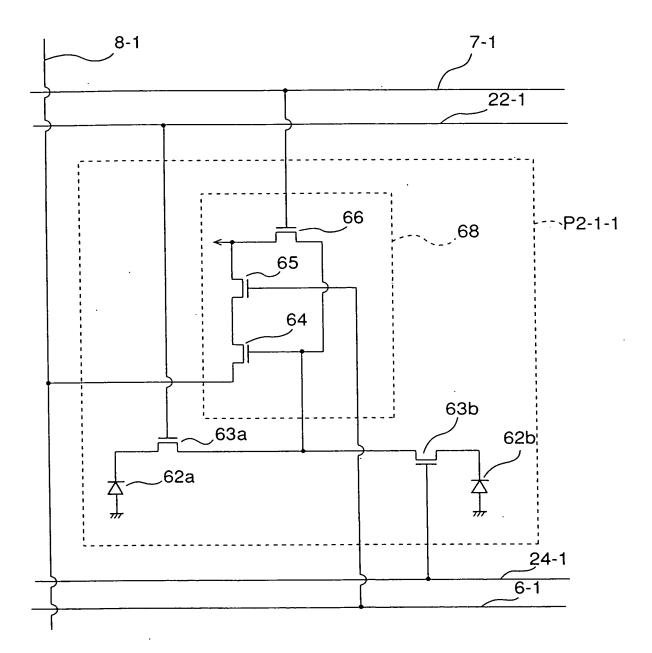
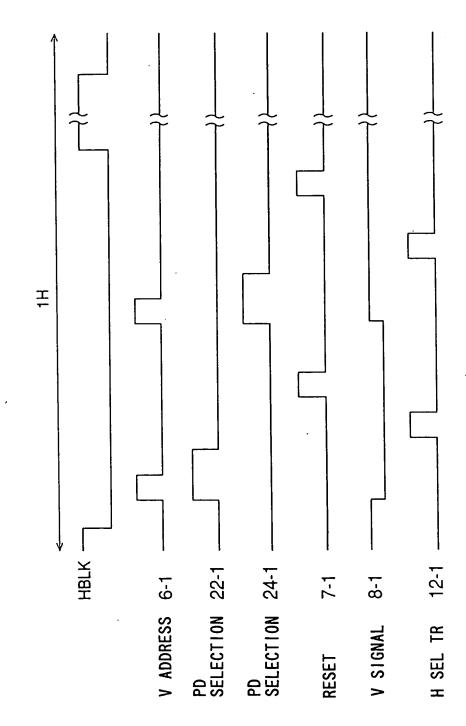


FIG.77





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FIG.78



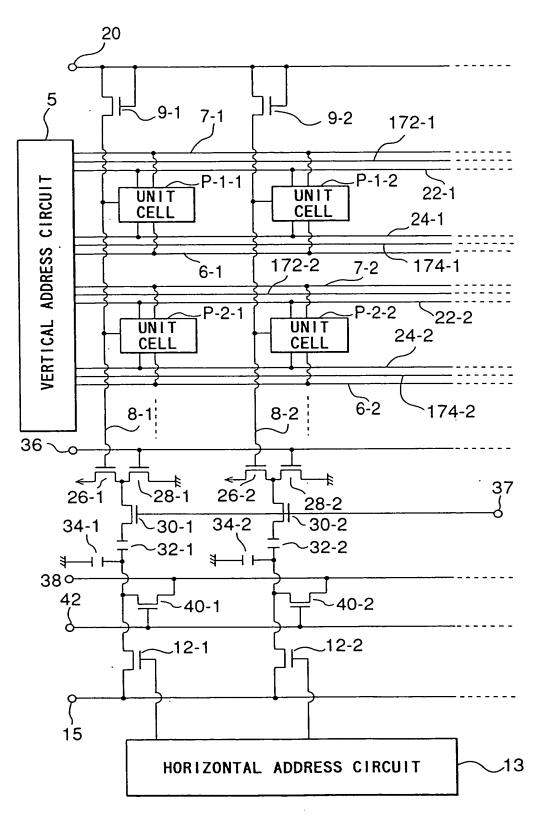


FIG.79

OBLON, SPIVAK, ET AL
DOCKET #: 212740US-2SRD CONT
INV: Yoshiyuki MATSUNAGA, et al.
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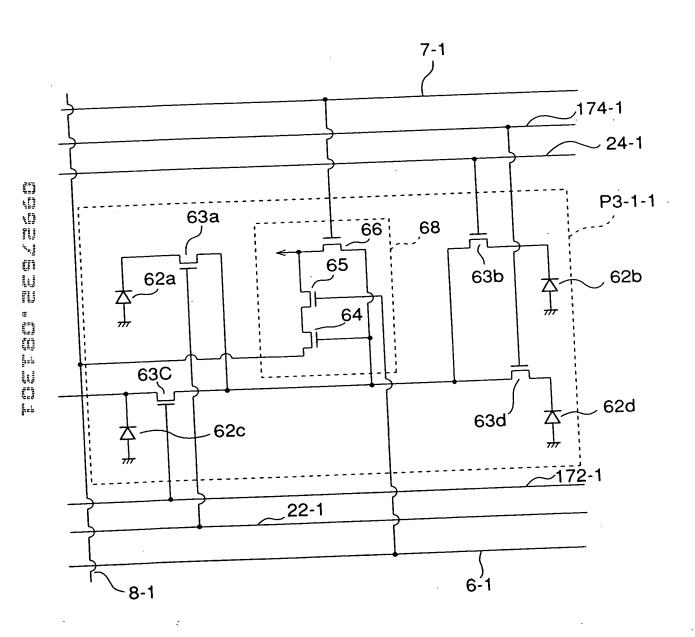


FIG.80

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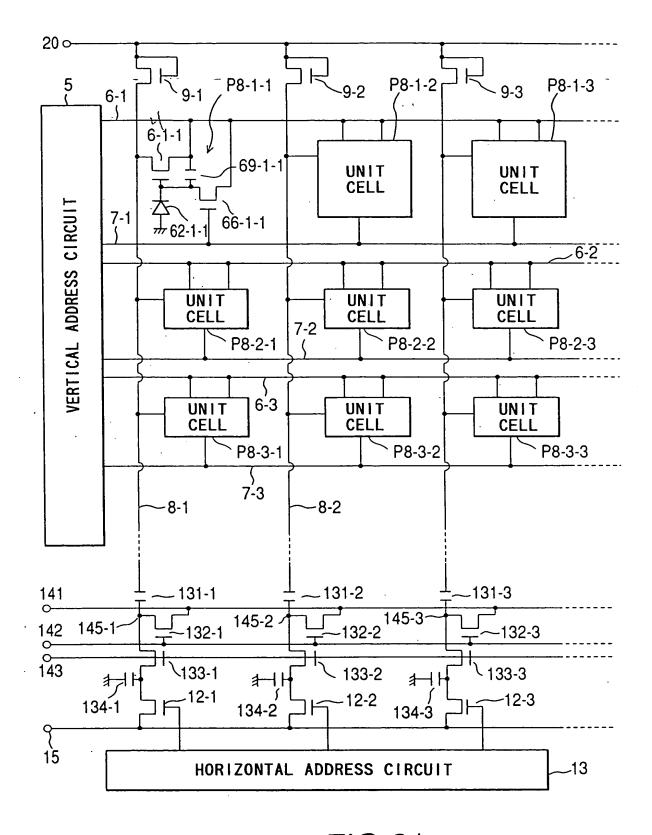
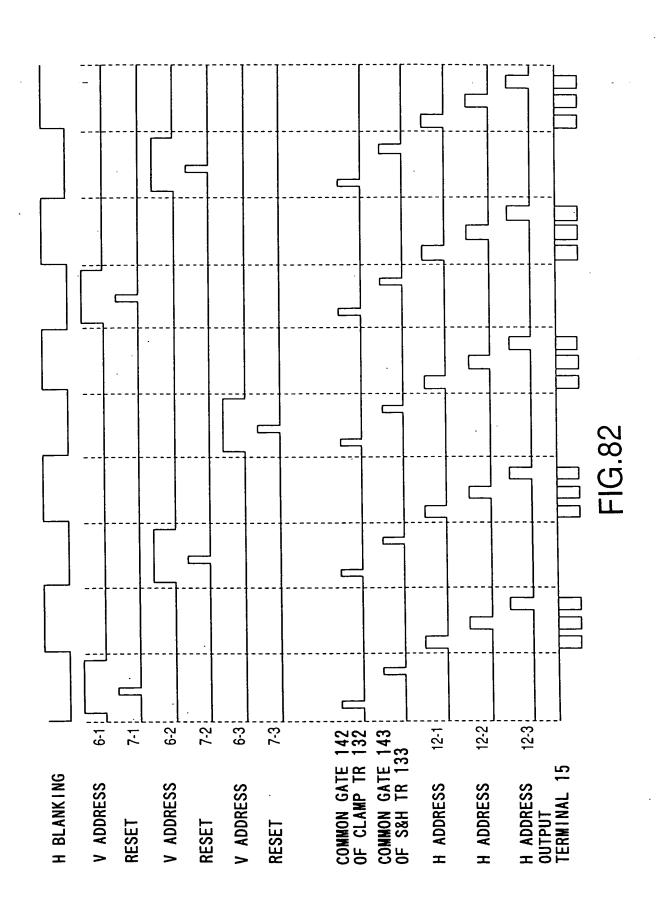


FIG.81





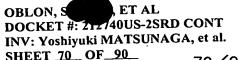


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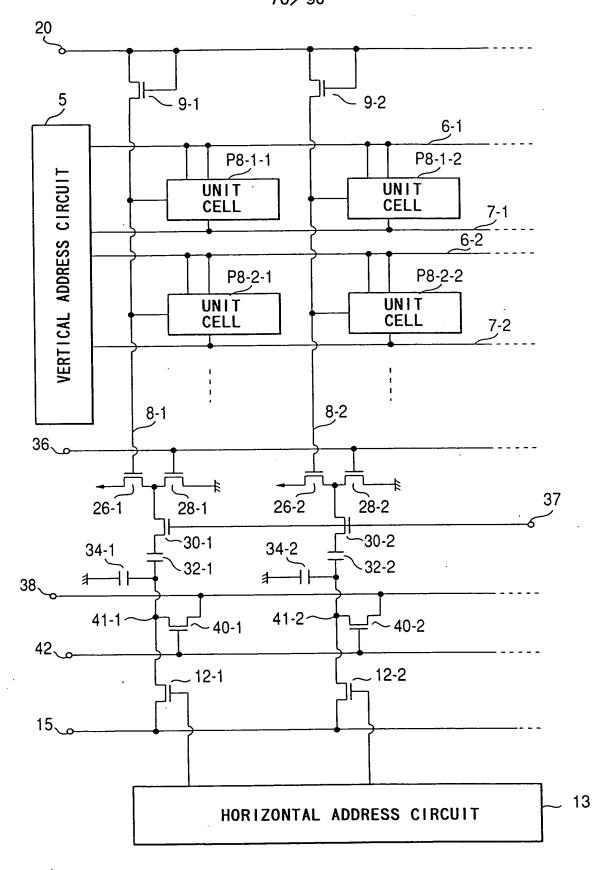
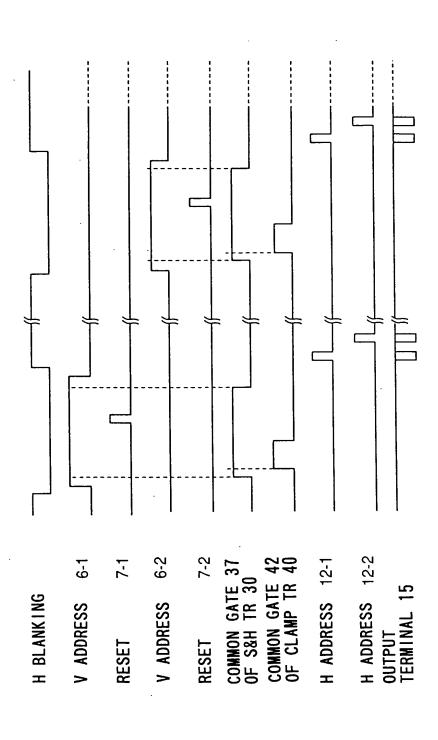


FIG.83

OBLON, AK, ET AL
DOCKET #: 212740US-2SRD CONT
INV: Yoshiyuki MATSUNAGA, et al.
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OBLON, SPIVAK, ET AL DOCKET #: 212740US-2SRD CONT INV: Yoshiyuki MATSUNAGA, et al. SHEET <u>72</u> OF <u>90</u>

72/90 20 - 9-2 5 - 9-1 6-1 P8-1-2 P8-1-1 UNIT UNIT CELL VERTICAL ADDRESS CIRCUIT **CELL** 7-1 P8-2-1 P8-2-2 UNIT CELL UNIT CELL 7-2 P8-3-1 P8-3-2 UNIT UNIT CELL **CELL** 7-2 8-2 8-1 202-1 202-2 204 📞 12-2 12-1 206-2 206-1 15 \ 13 HORIZONTAL ADDRESS CIRCUIT

FIG.85

OBLON, SPIVAK, ET AL DOCKET #: 212740US-2SRD CONT INV: Yoshiyuki MATSUNAGA, et al. SHEET <u>73</u> OF <u>90</u>

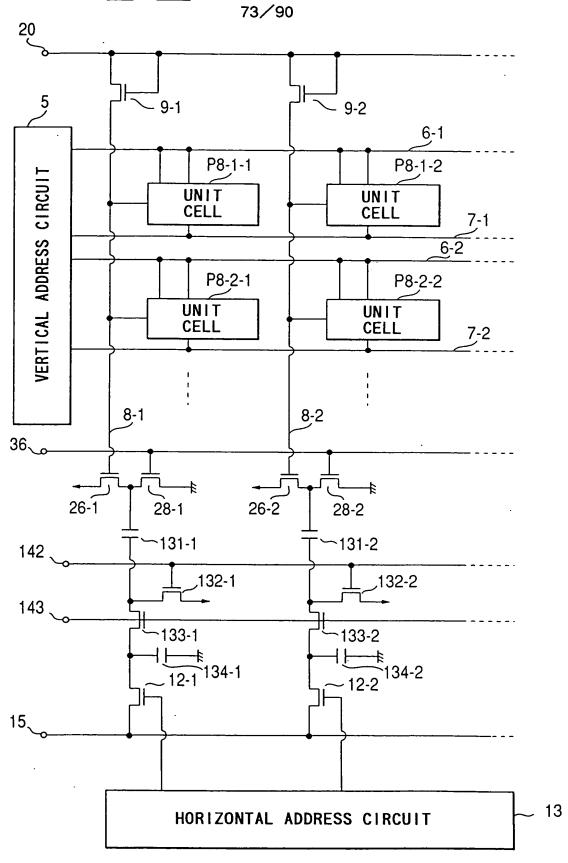


FIG.86

OBLON, SPIVAK, ET AL DOCKET #: 212740US-2SRD CONT INV: Yoshiyuki MATSUNAGA, et al. SHEET <u>74</u> OF <u>90</u>

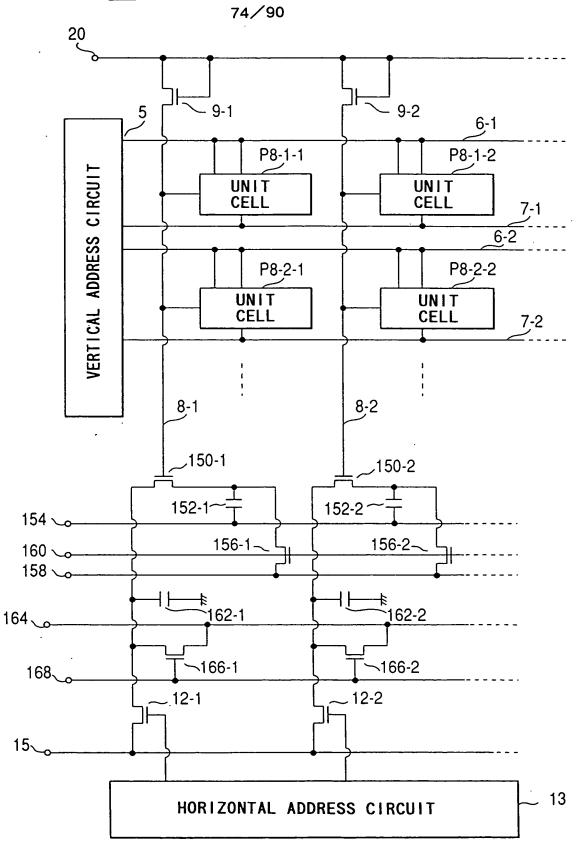
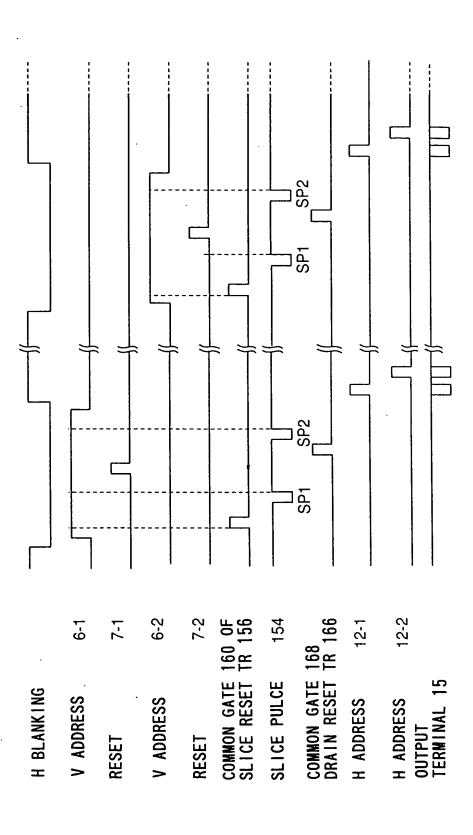


FIG.87

OBLON, AK, ET AL DOCKET #: 212740US-2SRD CONT INV: Yoshiyuki MATSUNAGA, et al. SHEET 75_OF_90_



OBLOZ JAK, ET AL DOCK. 12740US-2SRD CONT INV: Yoshiyuki MATSUNAGA, et al. SHEET 76 OF 90

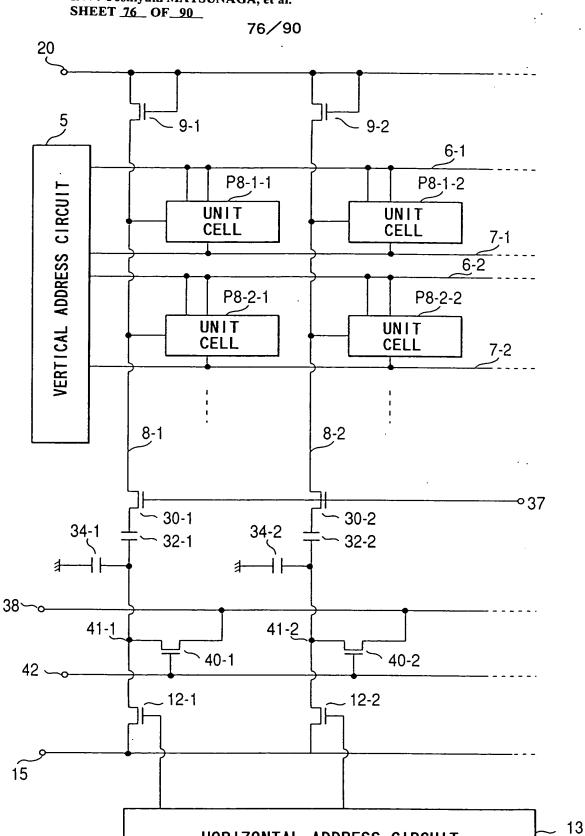


FIG.89

HORIZONTAL ADDRESS CIRCUIT

DOCKET#.-212740US-2SRD CONT INV: Yoshiyuki MATSUNAGA, et al. SHEET <u>77</u> OF <u>90</u> 77/90 20 - 9-2 **-** 9-1 5 6-1 P8-1-1 P8-1-2 VERTICAL ADDRESS CIRCUIT UNIT UNIT CELL **CELL** P8-2-1 P8-2-2 UNIT UNIT **CELL CELL** 7-2 8-1 8-2 164 162-1 162-2 -160-1 ~160-2 -131-1 -131-2 141₀ 145-2 145-1 **-132-1** 132-2 142 143 👡 133-1 133-2 1 | | | _ 12-1 134-1 12-2 134-2 15 \ 13 HORIZONTAL ADDRESS CIRCUIT

AK, ET AL

OBLON

FIG.90

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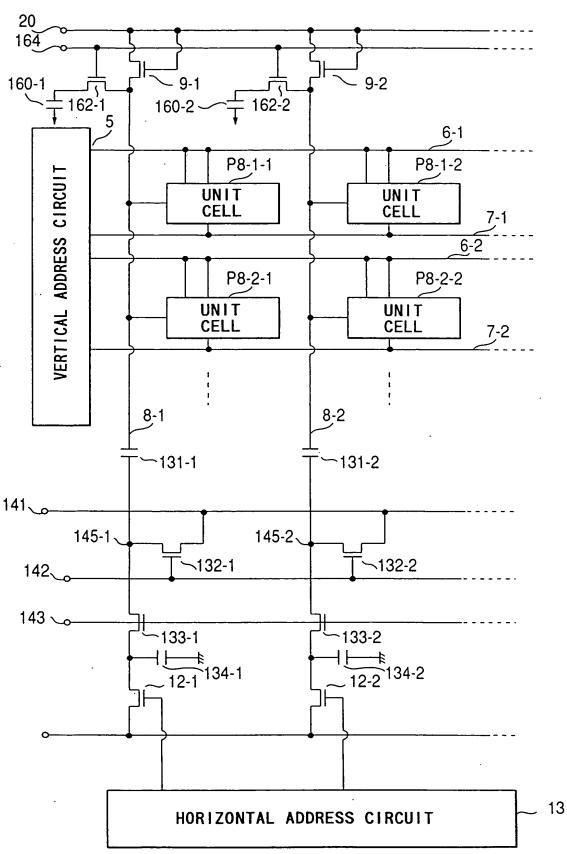


FIG.91

OBLON, JAK, ET AL DOCKET #: 212740US-2SRD CONT INV: Yoshiyuki MATSUNAGA, et al. SHEET 79 OF 90

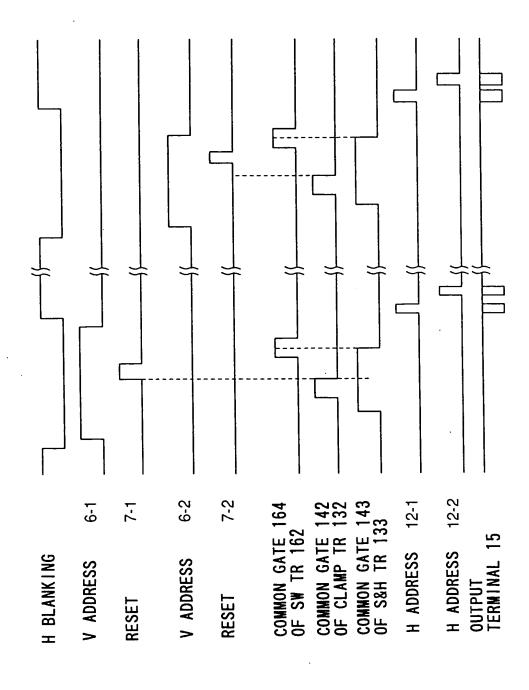


FIG.92



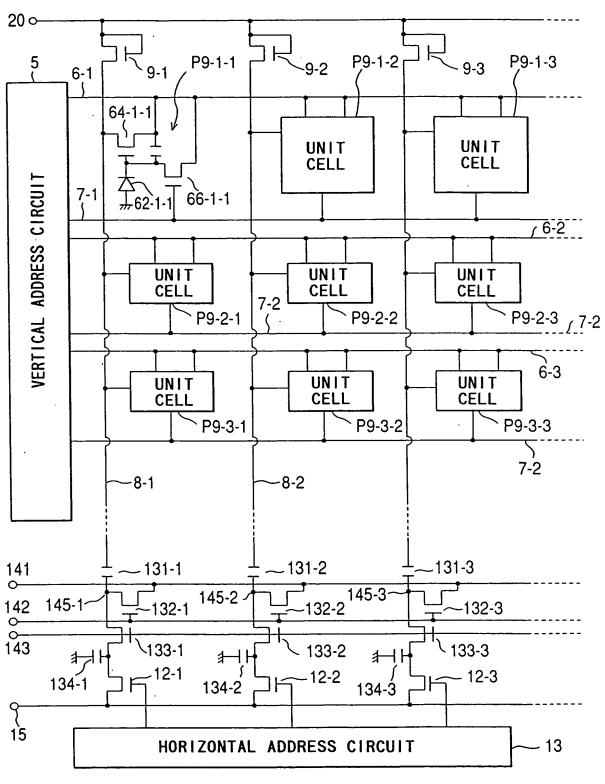


FIG.93

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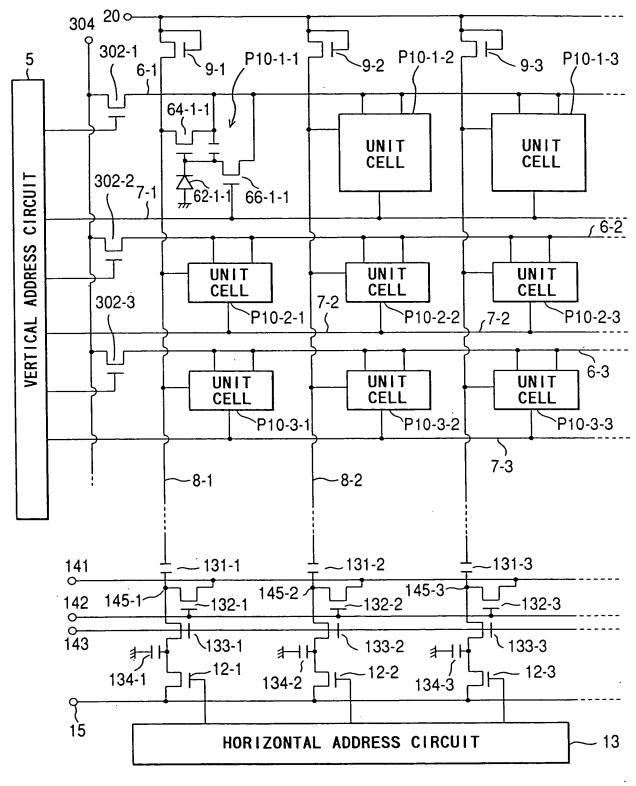


FIG.94

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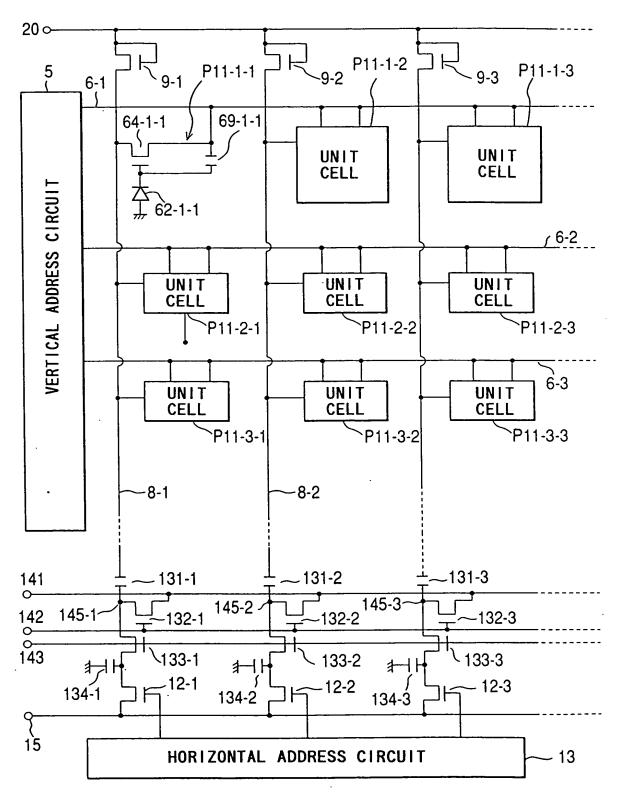
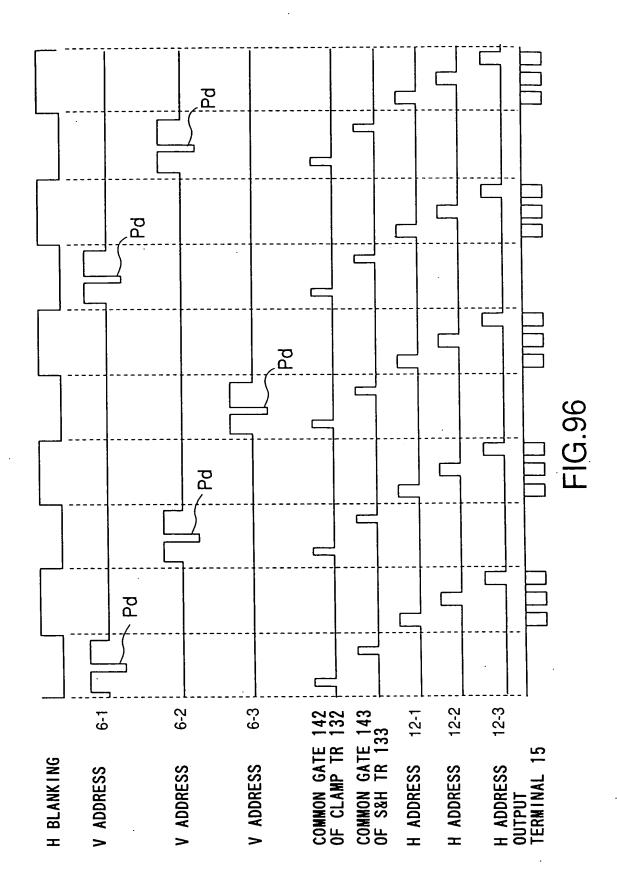


FIG.95

OBLON, SPIVAK, ET AL DOCKET #: 212740US-2SRD CONT INV: Yoshiyuki MATSUNAGA, et al. SHEET 83 OF 90 83/90





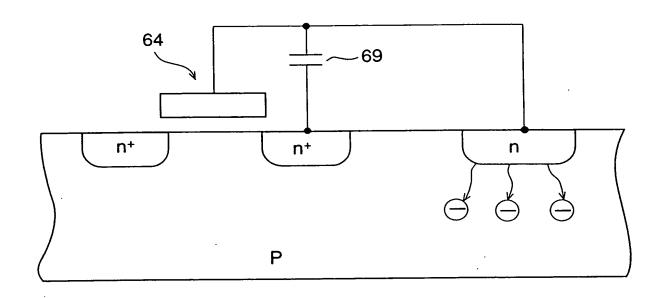


FIG.97

OBLON, VAK, ET AL
DOCKET #: 212740US-2SRD CONT
INV: Yoshiyuki MATSUNAGA, et al.
SHEET <u>85</u> OF <u>90</u>
85/90

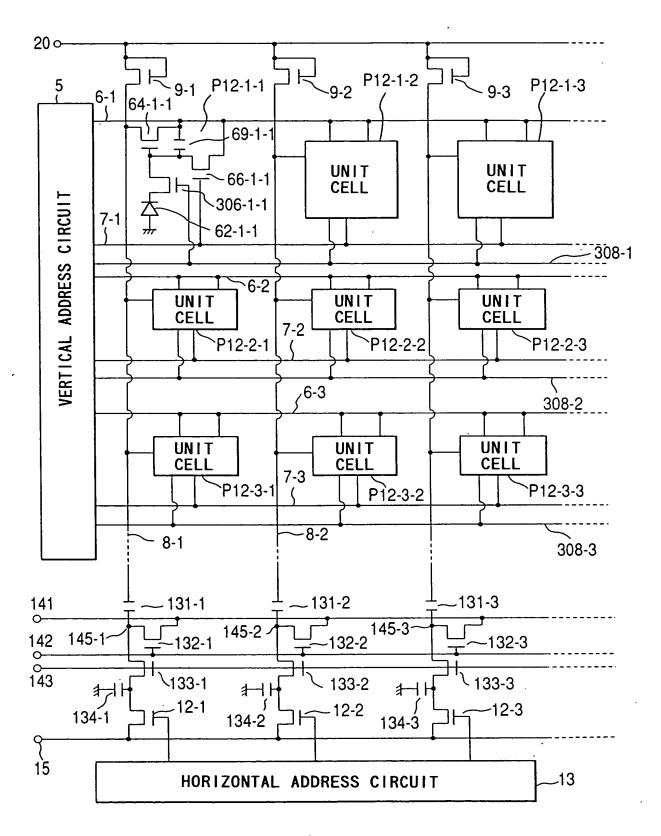


FIG.98

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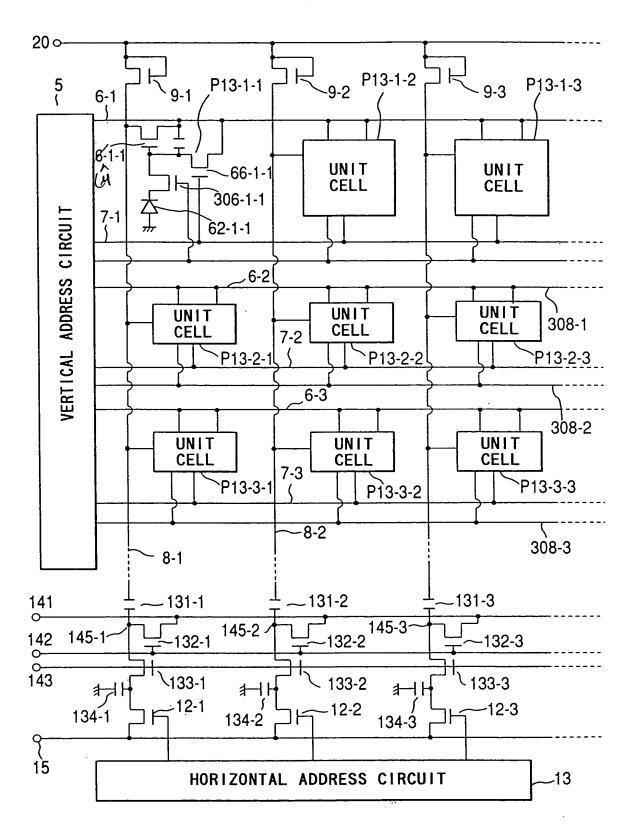


FIG.99

OBLON, SILVAK, ET AL
DOCKET #: 212740US-2SRD CONT
INV: Yoshiyuki MATSUNAGA, et al.
SHEET 87_OF_90_87/90

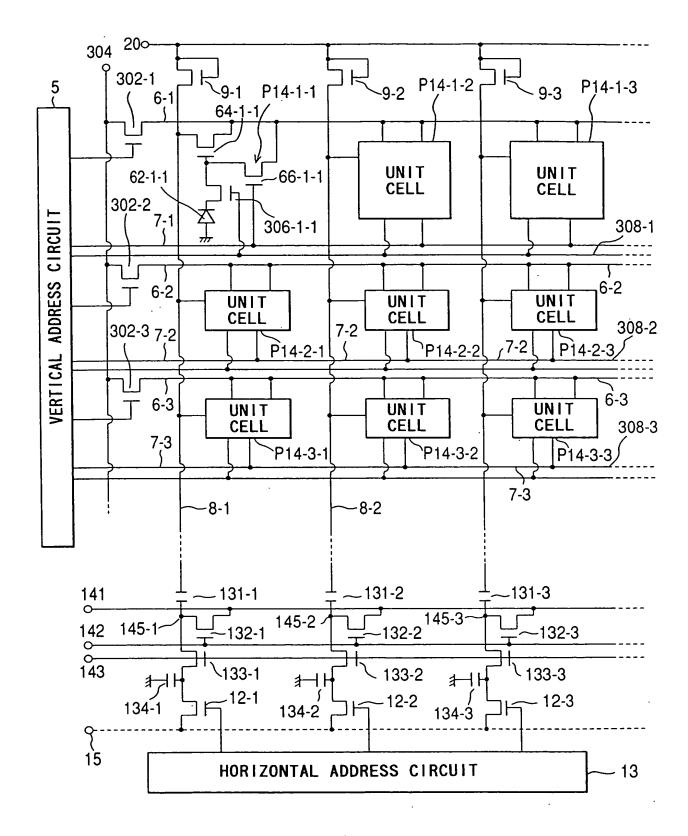


FIG.100

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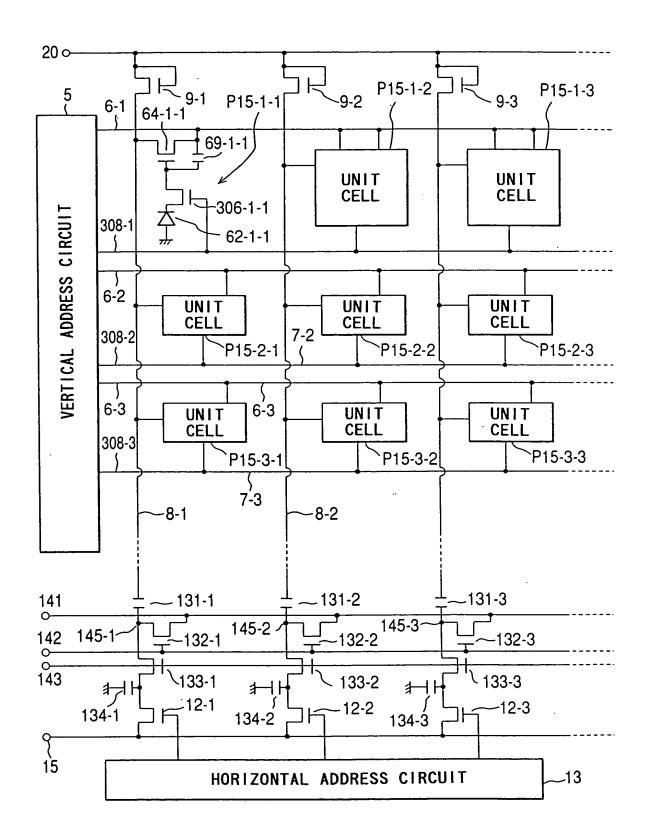


FIG.101

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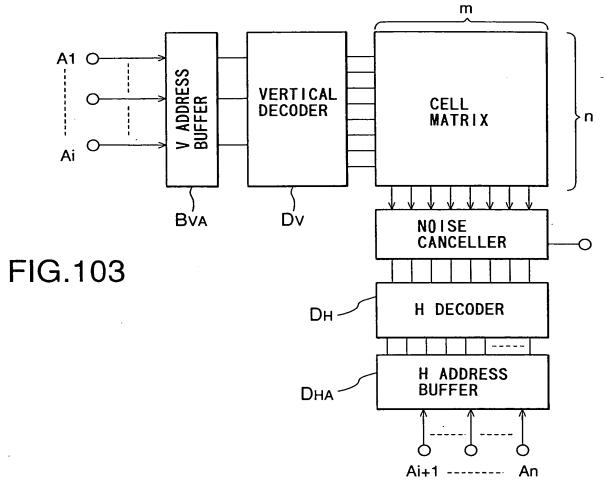
FIG.102

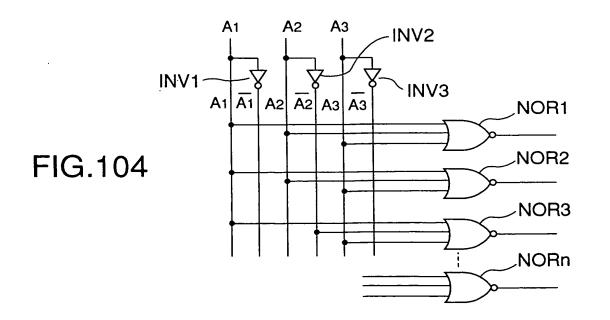
12-3

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